# **Combination VCR**

# PV-C1324-K / PV-C1334W-K / PV-C2024-K

For servicing the R4-Mechanism Chassis for PV-Model, Please refer to the R4-Mechanism-Chassis-for-PV-Model Service Manual (Order No. MKE0401000C1).



**SPECIFICATIONS** 

ITEM		SPECIFICATION		2 17	ЕМ	SPECIFICATION	
	Video	Head: 2 rotary heads helical scanning system	0		Tape Speed	SP. 1-5/16 i.p.s (33.35 mm/s), SLP: 7/16 i.p.s (11.12 mm/s) Record/Playback Time: 8 hr. with 160 min. type tape used in SLP mode	oc
		Input Level: VIDEO IN Jack (Phono type) 1.0 Vp-p 75 \Omega unbalanced Signal-to-Noise Ratio: SP: more than 43 dB SLP: more than 41 dB					
					Tape Format	Tape width 12.7 mm (1/2 inch) high density tape	oc
		Head: Normal Mono: 1 stationary head	0	FM Radio	Band Range	87.5 MHz-108.1 MHz	00
		Input Level: AUDIO IN Jack (Phono type) -10 dBv 50 kΩ unbalanced		DISPLA	D	13 inch measured diagonal 90° deflection Picture Tube 20 inch measured diagonal 90° deflection Picture Tube	0-
	Audio	Frequency Response: Normal Mono: SP: 100 Hz-8 kHz SLP: 100 Hz-5 kHz			Tube	·	- 0
VCR						Source: 120 V AC±12 V AC, 60 Hz±3 Hz	00
VON		Signal-to-Noise Ratio: Normal Mono: SP: more than 42 dB SLP: more than 40 dB	0	5	Power	Consumption: Approx. 69 W (Power on), Approx. 2.5 W (Power off) Approx. 110 W (Power on), Approx. 2.5 W (Power off)	o- - o
		Wow and Flutter: Normal Mono: SP: Less than 0.2 % WRMS SLP: Less than 0.4 % WRMS	0	,	Television System	EIA Standard (525 lines, 60 fields) NTSC Color Signal	oc
		Broadcast Channels: VHF 2~13, UHF 14~69		GENERAL	Condition	5 °C-40 °C (41 °F-104 °F) (Temperature) 10 %-75 % (Humidity)	oc
	Tuner	CABLE Channels: Midband A through I (14-22) Superband J through W (23-36) Hyperband AA~EEE (37-64)	0		Dimension	386 mm x 385 mm x 374 mm (15-3/16 inch x 15-3/16 inch x 14-3/4 inch) 515 mm x 505 mm x 474 mm (20-5/16 inch x 19-7/8 inch x 18-11/16 inch)	o - - c
		Lowband A-5-A-1 (95-99) Special CABLE channel 5A (01) Ultraband 65-94, 100-125			Weight	12 kg (26.4 lbs.) 23 kg (50.6 lbs.)	0-
					Solder	This model uses lead free solder (PbF).	00

<sup>1.</sup> PV-C1324-K/ PV-C1334W-K

Weight and dimensions shown are approximate. Designs and specifications are subject to change without notice.

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# **Panasonic**<sup>®</sup>

# 1. SAFETY PRECAUTIONS

**GENERAL GUIDELINES** 

#### 1. IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by △ in the Schematic Diagrams, Circuit Board Layout, Exploded Views and

<sup>2.</sup> PV-C2024-K

Replacement Parts List. It is essential that thesecritical parts should be replaced with manufacturer's specified parts to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

- 2. An Isolation Transformer should always be used during the servicing of Combination VCR whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resultingin personal injury from electrical shocks. It will also protect Combination VCR from being damaged by accidental shorting that may occur during servicing.
- 3. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 4. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shield, and isolation R-C combinations are properly installed.
- 5. Before turning the receiver on, measure the resistance between B+ line and chassis ground. Connect (-) side of an ohmmeter to the B + lines, and (+) side to chassis ground. Each line should have more resistance than specified,as follows: (For model with 13 inch CRT)

```
B+ Line
```

**Minimum Resistance** 

130.0 V

1 k Ω (Cold chassis ground)

23.0 V

180 Ω (Cold chassis ground)

17.0 V

110 Ω (Cold chassis ground) (For model with 20 inch CRT)

B+ Line

**Minimum Resistance** 

130.0 V

1 k Ω (Cold chassis ground)

27.0 V

180 Ω (Cold chassis ground)

17.0 V

110 Ω (Cold chassis ground)

- 6. When the TV set is not used for a long period of time, unplug the power cord from the AC outlet.
- 7. Potentials, as high as 25.0 kV (For model with 13 inch CRT) or 30.0 kV (For model with 20 inch CRT) are present when this TV set is in operation. Operation of the TV set without the rear cover involves the danger of a shock hazard from the TVset power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the CRT ground of receiver before handlingthe tube.
- 8. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. For physically operated power switches, turn power on. Otherwise skip step 2.
- 3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screwheads, connectors, etc. When the exposed metallic part has a return path to the chassis, the readingshould be between 1 M  $\Omega$  and 12 M  $\Omega$ . When the exposed metal does not have a return path to the chassis, the reading must be infinity.

**LEAKAGE CURRENT HOT CHECK** 

- Plug the AC cord directly into the AC outlet.
   Do not use a isolation transformer for this check.
- 2. Connect a 1.5 k  $\Omega$  , 10 W resistor, in parallel with a 0.15  $\,\mu$  F

- capacitor, between each exposed metallic part on the set and a good earth ground, as shown in Figure 1.
- 3. Use an AC voltmeter, with 1 k  $\Omega$  /V or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- 5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 V RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks. Leakage current must not exceed 1/2 mA. In case a measurement is outside of the limits specified, there is a possibility of shock hazard, and thereceiver should be repaired and rechecked before it is returned to the customer.

Hot-Check Circuit

AC VOLTMETER

0.15 μF

1.5 kΩ. 10 W

APPLIANCES

EXPOSED

METAL PARTS

Figure 1

# 2. X-RADIATION

**WARNING:** 

- 1. The potential source of X-Radiation in TV sets is the High Voltage section and the picture tube.
- 2. When using a picture tube test fixture for service, ensure that the fixture is capable of handling 25.0 kV (For model with 13 inch CRT) or 30.0 kV (For model with 20 inch CRT) without causing X-Radiation.

#### NOTE:

It is important to use an accurate periodically calibrated high voltage meter.

1. Reduce the brightness to minimum.

- 2. Set the SERVICE switch to SERVICE.
- 3. Measure the High Voltage. The meter reading should indicate 23.5 kV±1.5 kV (For model with 13 inch CRT) or 28.5 kV±1.5 kV (For model with 20 inch CRT).
  If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature
- 4. To prevent an X-Radiation possibly, it is essential to use the specified picture tube.

HORIZONTAL OSCILLATOR DISABLE CIRCUIT TEST SERVICE WARNING:

component failure.

The test must be made as a final check before set is returned to the customer.

- 1. With the rear cover removed, supply about a 120 V AC power source to the set, turn on the set.
- 2. Set the customer controls to normal operating positions.
- 3. Short both sides of R804 on the Main circuit board with a jumper wire. Confirm that the picture goes out of horizontal sync.
- 4. If this does not occur, the horizontal oscillator disable circuit is not operating. Follow the Repair Procedures of horizontal oscillator disable circuit before the set is returned to customer.

REPAIR PROCEDURES OF HORIZONTAL OSCILLATOR DISABLE CIRCUIT

- 1. Connect a DC voltmeter between capacitor C513 (+) on the Main circuit board and chassis ground.
- 2. If approximately +19.9 V (For model with 13 inch CRT) or +17.9 V (For model with 20 inch CRT) is not present at that point when 120 V AC is applied, find the cause. Check R503, R5504, R5505, D503, C513, C5507 and J5501.
- 3. Carefully check above specified parts and related circuits and parts. When the circuit is repaired, try the horizontal oscillator disable circuit test again.

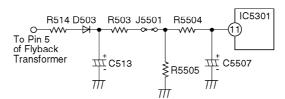
**CIRCUIT EXPLANATION** 

HORIZONTAL OSCILLATOR DISABLE CIRCUIT

The positive DC voltage, supplied from the D503 cathode for monitoring high voltage, is applied to the IC5301 Pin11 through R503 and R5504. Under normal conditions, the voltage at IC5301 Pin 11 is less than approx 6 V. If the high voltage at FlybackTr Pin 5 exceeds the specified voltage, the positive DC voltage which is supplied from the D503 cathode also increases. The

increased voltage is applied to IC5301 Pin11 through R514, R503 and R5504. Due to the increased voltage at IC5301 Pin11, thehorizontal oscillator frequency increases, the picture goes out of horizontal sync, the beam current decreases and the picture becomes dark in order to keep X-radiation under specification.

Figure 2



# 3. PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors are semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an antistatic solder removal device. Some solder removal devices not classified as "antistatic (ESD protected)" can generate electrical charge sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most

replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparableconductive material).

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

#### **CAUTION:**

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD)sufficient to damage an ES device).

#### "NOTE to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding systemof the building, as close to the point of cable entry as practical."

# 4. ABOUT LEAD FREE SOLDER (PbF)

#### Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF printing on the PCB. (Please refer to figures.)



Printed case

#### **CAUTION:**

- Pb free solder has a higher melting point than standard solder;
   Typically the melting point is 50 °F 70 °F (30 °C 40 °C) higher.
   Please use a soldering iron with temperature control and adjust it to 700 °F±20 °F (370 °C± 10 °C).
   In case of using high temperature soldering iron, please be carefull not to heat too long.
   Pb free solder will tend to splash when heated too high (about 1100 °F/600 °C).
- All products with the printed circuit board with PbF stamp or printing must be serviced with lead free solder.
   When soldering or unsoldering, completely remove all of the solder from the pins or solder area, and be sure to heat the soldering points with the lead free solder until it melts sufficiently.

#### Recommendations

Recommended lead free solder composition is Sn96.5 Ag3.0 Cu0.5.

# 5. SERVICE NOTES (PLEASE READ)

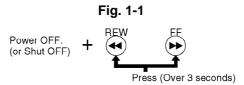
#### **5.1. SERVICE NOTES**

#### 5.1.1. SELF-DIAGNOSIS INDICATION DISPLAY

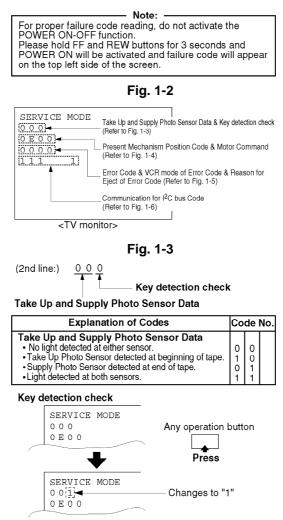
Simplified Self-Diagnostic System facilitates finding the cause of the fault. The following data will be displayed on the TV screen.

The Error Code data is stored in the Memory IC (IC6004) (latest error only). This data is cleared after it is displayed, and then the POWER button is pressed back on.

1. With power turned off, press FF and REW buttons on the unit together for over 3 seconds.



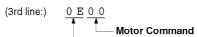
2. TV power comes on and the unit goes into service mode. The following codes will be displayed.



#### Note:

Press any operation button except for POWER on either the unit, or the remote to detecet that a key has been pressed. The 3rd digit changes to "1" only when key is detected.

Fig. 1-4



#### Present Mechanism Position Code (For Mode Switch)

Explanation of Codes	С	od	e N	ο.
Present Mechanism Position Code  • EJECT  • CASSETTE DOWN  • CASSETTE DOWN  • CASSETTE DOWN  • REV  • PLAY  • CYLINDER STOP  • STOP F  • FF/REW  • Intermediate positions between each positions	00000000000	E23456789CF		
Explanation of Codes	С	od	e N	ο.
Motor Command  Cylinder OFF /Capstan OFF  Cylinder OFF /Capstan ON (FWD)  Cylinder OFF /Capstan OFF  Cylinder OFF /Capstan ON (REV)  Cylinder ON /Capstan OFF  Cylinder ON /Capstan ON (FWD)  Cylinder ON /Capstan OFF  Cylinder ON /Capstan OFF  Cylinder ON /Capstan OFF			012389AB	
Loading Motor OFF     Loading     Unloading     Loading Motor Brake				0 1 2 3

Fig. 1-5

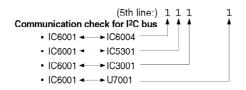


**Explanation of Codes** Code No. Error condition Remedy/Check 0 0 CYL PFG pulse can not be detected when the Cylinder starts. Please check the Cylinder motor, Cylinder drive circuit and CYL PFG signal circuit. 0 1 CAP FG pulse can not be detected during the Mechanism Initial operation (Tape rewinding by the S-Reel) at DOWN position. Please check the Capstan motor Capstan drive circuit and CAP FG signal circuit 0 2 Loading Lock during Loading operation at DOWN position. Please check the Mechanism, Loading Motor, Drive circuit, Drive control signal circuit, Mode Select SW and the Mode Select SW input signal circuit. 0 3 Please check the Mechanism, Loading Motor, Loading Motor drive circuit, Loading motor drive control signal circuit, Mode Select SW and the Mode Select SW input signal circuit. Loading Lock during Unloading operation at DOWN position. 0 4 Please check the Mechanism S-reel system, S-reel sensor, S-reel sensor input signal circuit, Capstan motor, Capstan motor drive circuit, Capstan control signal circuit, and so on. S-reel pulse can not be detected during Unloading operation. 0 5 Please check the Mechanism, Loading motor, Loading motor drive circuit, Loading motor drive control signal circuit, Mode Select SW and the Mode Select SW input signal circuit. Loading (cassette) Lock during Cassette Up operation. 6 0 Head clog detection. Clean the Cylinder Head. 1 The position signal from Mode Select SW can not be detected. Check Mode Select SW contact. 4 CAP FG pulse can not be detected during Cassette in operation. Please check the Capstan motor Capstan motor drive circuit and the CAP FG signal circuit. 5 Please check the Cylinder motor, Cylinder motor drive circuit and the CYL HSW signal circuit. Cylinder Lock 6 Please check Mechanism S-reel system, S-reel sensor, S-reel sensor input signal circuit, Capstan motor, Capstan motor drive circuit, Capstan control signal circuit, and so on. S-reel Lock. 7 Please check Mechanism T-reel system, T-reel sensor, T-reel sensor input signal circuit, Capstan motor, Capstan motor drive circuit, Capstan control signal circuit, and so on. T-reel Lock. 8 1 Please check the Cassette tape, S-photo sensor, S-reel and Capstan system. Eject operation due to error condition. 0 8 VCR mode of Error Code
• STOP • EJECT • REW 3 • FF • REV 4 5 6 7 • CUE • SLOW • POWER OFF • PLAY 8 9 **A** B • STILL • REC • REC PAUSE Reason for Eject of Error Code 0 1 No reason Cassette tape is off from S-Post at DOWN position.

Capstan motor can not rotate. 2 Mechanism Lock during Loading operation 3 at DOWN position. 4 Both ends of tape is detected at DOWN position.

No reason. С

Fig. 1-6



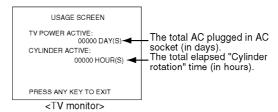
Explanation of Codes	Code No.					
Communication check for I²C bus (IC6001 <b>∢→</b> IC6004) <b>NG</b> <b>OK</b>	0					
Communication check for I²C bus (IC6001		0				
Communication check for I²C bus (IC6001◄→IC3001) NG OK			0			
Communication check for I²C bus (IC6001◄ ➤ U7001) NG OK						0

#### **5.1.2. USAGE SCREEN MODE**

This function is displayed on the TV monitor:

- the total AC plugged in AC socket (in days)
- the total elapsed "Cylinder rotation" time (in hours)
- With power turned and no cassette, press STOP/EJECT button on VCR and 7 key on remote together.
   The USAGE SCREEN will be displayed on the TV Monitor.

Fig. 2



#### Note:

- 1. After replacing the Cylinder Unit, press COUNTER RESET button on remote in this mode. Only Total elapsed "Cylinder rotation" time (in days) will be cleared to 0.
- 2. To release from Usage Screen Mode, press any operation button on VCR or insert a cassette tape in this mode. VCR will return to normal operation mode.

#### **5.1.3. SERVICE POSITION**

5.1.3.1. Service Position

Service Position	Purpose
Service Position (1)	Mechanism check Mechanical adjustment Electrical adjustment
Service Position (2)	TV/VCR Main C.B.A. check

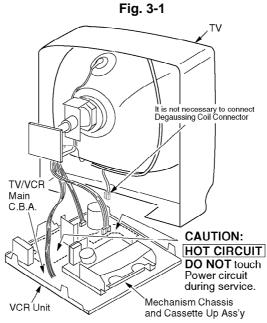
#### **CAUTION:**

HOT CIRCUIT (Primary circuit) exists on the TV/VCR Main C.B.A. Use extreme care to prevent accidental shock when servicing.

#### Note:

When carrying out loading of the cassette tape, if light is strong, a tape may not carry out loading. Please shade a Mechanism top or weaken lighting.

5.1.3.2. Service Position (1)

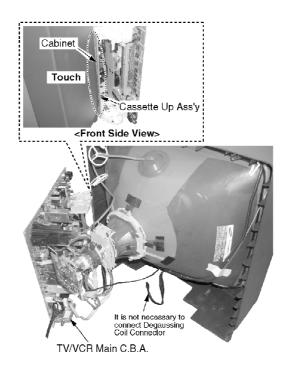


5.1.3.3. Service Position (2)

#### To service the Main C.B.A.:

Remove the Main C.B.A. with the Mechanism, and place the Main C.B.A. with the Mechanism so the top of the Cassette Up Ass'y touches to the edge of the Cabinet in order to avoid the removal of the Mechanism from the Main C.B.A.

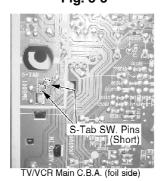
Fig. 3-2



#### Note:

It is possible that the S-Tab SW. may not work correctly in Service Position (2). (Recording can not be done). In this case, short the S-Tab SW. Pins on the foil side of the TV/VCR Main C.B.A. to turn this SW. on.

Fig. 3-3



Alternative method: Cover the S-Tab SW. with masking tape.

#### 5.1.4. HOT CIRCUIT

Primary circuit exists on the TV/VCR Main C.B.A.

This circuit is identified as "HOT" on the C.B.A. and in the Service Manual. Use extreme care to prevent accidental shock when servicing.

#### **5.1.5. SERVICE MODE**

In order to inhibit detection of the Supply & Takeup Photo Transistors, Reel Sensor, and Cylinder Lock can be inhibited. In this mode, Mechanism movement can be confirmed. When removing Cassette Up Ass'y, it can be confirmed without acassette.

To enter Service Mode:

Press and hold STOP/EJECT, PLAY/REPEAT, and CH DOWN buttons on the unit together over 5

seconds in power on condition. The unit goes into Service Mode.

Fig. 4-1



To release from this mode, disconnect AC Plug.

#### 5.1.6. MECHA MANUAL MODE

In shut off condition or in Service Mode, press the CH UP on the unit and CH UP buttons on the remote together without a cassette.

In this mode, Loading or Unloading operation can be confirmed by pressing the REW/SLOW or FF/SLOW button on the remote.

Service Mode (or Shut OFF)

Mecha Manual 

Fig. 4-2

(on unit) (on remote) CH UP

CH UP

Press

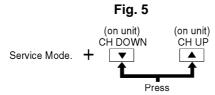
(on remote) (on remote)

FF

#### **5.1.7. TRACKING CENTER MODE (TRACKING FIX AT CENTER)**

Insert the Cassette tape. Set the unit into Service Mode.

Press CH UP on the unit and CH DOWN buttons on the remote together in play back mode. In this mode, the tracking is fixed at center. (Auto tracking and manual tracking functions are not operational.)



#### **5.1.8. DEFEATING THE AUTO TRACKING**

To defeat the Auto Tracking Function, place the instrument in the STOP mode and place a jumper between TP6003 and TP6009 on the TV/VCR Main C.B.A. The tracking will be placed in the neutral position.

#### 5.1.9. CAUTION FOR INSTALLATION OF VCR UNIT

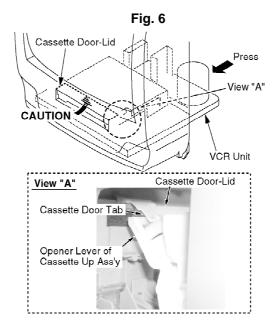
#### **CAUTION:**

Opener Lever may be damaged when VCR Unit is installed, with Cassette Door-Lid and Opener Lever of Cassette Up Ass'y set incorrectly.

Install the VCR Unit as follows:

1. Swing the Cassette Door-Lid all the way open until the Cassette Door tab clears the Opener Lever.

# 2. Make sure that all guide tabs are aligned properly. Then, press the VCR Unit straight in.

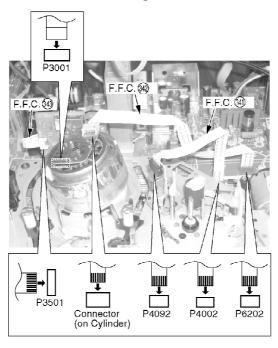


#### 5.1.10. F.F.C. CONNECTION NOTE

5.1.10.1. F.F.C. between the Capstan Motor and the Cylinder

Be careful with the direction of F.F.C. to connector as shown.

Fig. 7



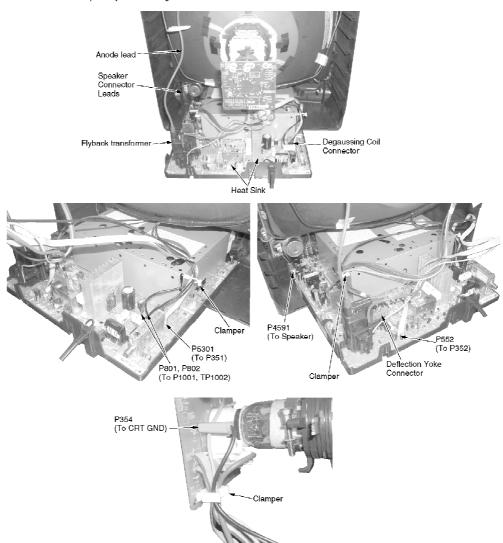
#### **5.1.11. WIRE AND LEAD POSITION DIAGRAM**

Fig. 8

After servicing, make sure that all wires, leads, and clampers are placed in their original position. It is important for the best operation of the unit.

#### Note:

No lead wires or flat cables should touch any heating parts or the Heat Sink Plate. Use extreme care especially for followings.



#### 5.1.12. HOW TO SET TRACKING TO THE NEUTRAL POSITION

Ejecting the cassette tape and then reinserting it will reset the tracking to the Neutral position.

#### **5.1.13. BLACK SCREWS ON THE CHASSIS**

Black Screws are used on the Mechanism Chassis to identify screws that require adjustment.

#### 5.1.14. HOW TO RESET ALL COMBINATION VCR MEMORY FUNCTIONS

To reset (clear) the select language, channel auto set and set clock functions to their initial power on condition (power on, no cassette inserted), hold down the PLAY and FF buttons on the unit together for more than 5 seconds.

Power will shut off.

#### 5.1.15. HOW TO CONFIRM AUTO CLOCK SET FEATURE

# 1. Connect an RF cable from the output of one unit to the input of

the test unit.

- 2. Select corresponding RF channels.
- 3. Playback a recording of P.B.S. channel including clock set data and confirm this feature.

#### 5.1.16. VARIABLE VOLTAGE ISOLATION TRANSFORMER

An Isolation Transformer should always be used during the servicing of Combination VCR whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personalinjury from electrical shocks. It will also protect Combination VCR from being damaged by accidental shorting that may occur during servicing.

Also, when troubleshooting the above type of Power Supply Circuit, a variable isolation transformer is required in order to increase the input voltage slowly.

#### 5.1.17. SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the

"ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

#### 5.1.18. MODEL NO. IDENTIFICATION MARK

Use Marks shown in the chart below to distinguish the different models included in this Service Manual.

MODEL	MARK
PV-C1324-K  PV-C1334W-K	A B C D E
PV-C2024-K NOT USED	F PT

#### Note:

Refer to Item 3 of Schematic Diagram Notes of Schematic Diagram and Circuit Board Layout Notes, for mark "DT"

# 6. DISASSEMBLY / ASSEMBLY PROCEDURES

#### 6.1. CABINET SECTION

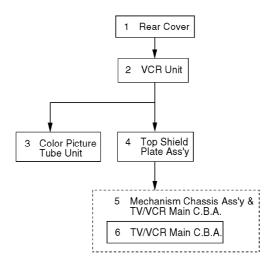
#### 6.1.1. Disassembly Flowchart

Perform all disassembly procedures in the order described in the "Disassembly Flowchart" shown below. When reassembling, use the reverse procedure.

#### **CAUTION:**

Disconnect AC plug before disassembly.

Fig. D1



# 6.1.2. Disassembly Method

STEP No.	Ref. No.	PART	Fig. No.	REMOVE	Note
1	73	Rear Cover	D2	6(46)	
2	-	VCR Unit	D4 D5		1
3	89)	Color Picture Tube Unit	D2	4(45)	2
4	91	Top Shield Plate Ass'y	D3	5(11), 3(63)	
5	-	Machanism Chassis Ass'y & TV/VCR Main C.B.A.	D3	2ఱ), 3 ⑭, Tabs	3
6	<b>(1)</b>	TV/VCR Main C.B.A.	D3	P3001, P4001, P4092 (or P4002), P6201, P6202, P6203	3

Fig. D2

IMPORTANT SAFETY NOTICE
COMPONENTS IDENTIFIED BY THE SIGN  $\hat{\mathbf{\Delta}}$  HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE
ONLY THE SPECIFIED PARTS.

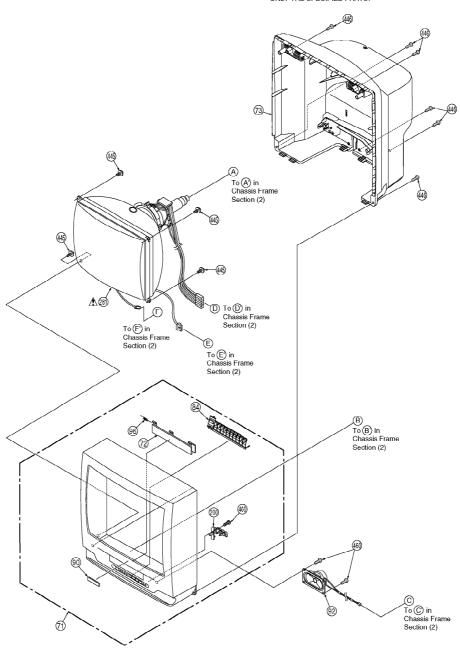
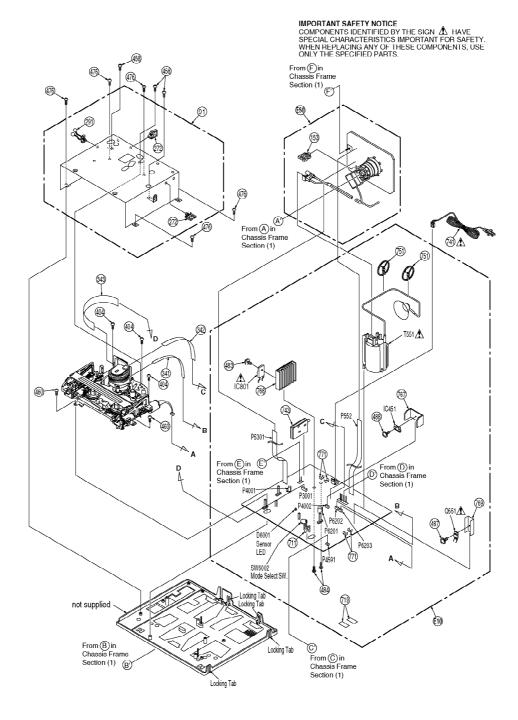


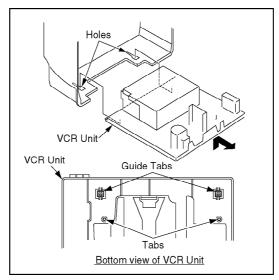
Fig. D3



#### **6.1.2.1. Notes in chart**

# 1. Removal of VCR Unit

Fig. D4

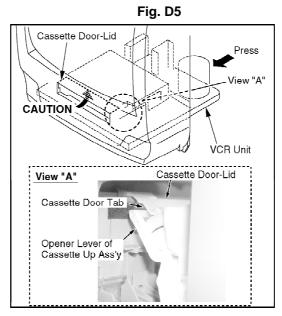


#### Installation of VCR Unit

#### **CAUTION:**

Opener Lever may be damaged when VCR Unit is installed, with Cassette Door-Lid and Opener Lever of Cassette Up Ass'y set incorrectly.

- A. When installing the VCR Unit, swing the Cassette Door-Lid all the way open until the Cassette Door tab clears the Opener Lever.
- B. Make sure that all guide tabs are aligned properly. Then, press the VCR Unit straight in.

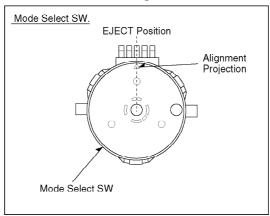


2. Removal of Color Picture Tube Unit
Place the Unit face down on a soft cloth before removing the

**Color Picture Tube Unit.** 

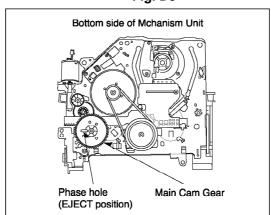
- 3. Installation of Mechanism Chassis and Cassette Up Ass'y onto Main C.B.A.
  - A. Make sure the Mode Select SW. on the Main C.B.A. is in EJECT position. If not, rotate the Mode Select SW. until the alignment projection is in the EJECT Position.

Fig. D6



B. Make sure the phase hole of the Main Cam Gear on the bottom side of the Mechanism Unit is in EJECT Position.

Fig. D9



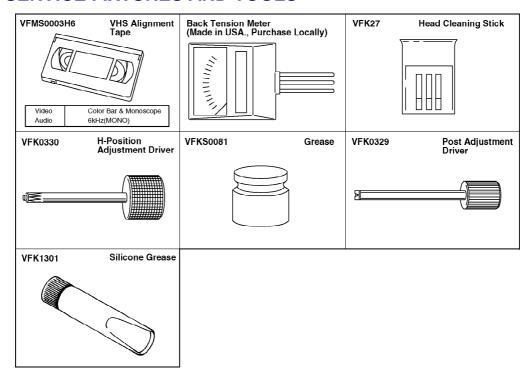
C. Install the Mechanism Chassis straight onto the Main C.B.A. so that the Sensor LED clears the hole in the Mechanism Chassis and that 2 Connectors (P6201 and P4001) are aligned and seated securely.

# **6.2. MECHANISM SECTION**

Refer to the Service Manual for R4-Mechanism Chassis. (Order No. MKE0401000C1)

# 7. ADJUSTMENT PROCEDURES

#### 7.1. SERVICE FIXTURES AND TOOLS



#### 7.2. MECHANICAL ADJUSTMENT

Refer to the Service Manual for R4-Mechanism Chassis. (Order No. MKE0401000C1)

# 7.3. ELECTRICAL ADJUSTMENT

#### 7.3.1. TEST EQUIPMENT

To do all of these electrical adjustments, the following equipment is required.

1. Dual-Trace Oscilloscope

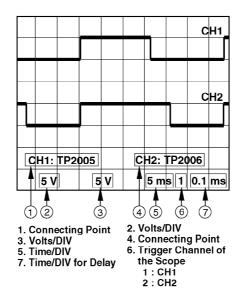
Voltage Range: 0.001 V to 50 V/Div. Frequency Range: DC to 50 MHz

Probes: 10:1, 1:1

- 2. NTSC Video Pattern Generator
- 3. DVM (Digital Volt Meter)
- 4. Isolation Transformer (Variable)
- 5. VHS Alignment Tape (VFMS0003H6)
- 6. Degaussing Coil
- 7. White Pattern Generator

#### 7.3.2. HOW TO READ THE ADJUSTMENT PROCEDURES

Fig.E1



# 7.3.3. EVR (Electronic Variable Register) ADJUSTMENT WITH THE REMOTE CONTROL

This unit has electronic technology using I2C Bus concept. The following control functions are adjusted by using "On Screen Displays" and the remote control instead of adjusting mechanical controls (VR).

**Memory IC Reference Table** 

	<b>%</b> 1		
Control functions	Address	Range	Default
SUB COLOR	00	C0 - FF, 00 - 3F	00
SUB TINT	01	E0 - FF, 00 - 1F	00
SUB BRIGHT	02	C0 - FF, 00 - 3F	DE
CONTRAST	03	C1 - FF, 00	00
SUB SHARPNESS	04	E0 - FF, 00 - 1F	F0
R CUT -OFF	05	00 - 7F	1E
G CUT -OFF	06	00 - FD	3C
B CUT -OFF	07	00 - FD	3C
G DRIVE	80	00 - 7F	40
B DRIVE	09	00 - 7F	40
SUB CONTRAST	0 <b>A</b>	00 - 0F	06
H-CENTER	0B	00 - 0F	80
V SIZE	0D	00 - 7F	40
V POSITION *2	0E	00 - 1F	03
ANR	10	00 - FD	89
PIC	11	00 - FD	86
VV COLOR	12	00 - FF	00
VV TINT	13	00 - FF	00
VV SHARPNESS	14	00 - FF	F8
PG SHIFTER	15	01 - FD	80
US/CANADA	18	00 - 01	00/01

#### Note:

- \*1. Address is not displayed on the TV screen. Other Addresses except above are not used.
- \$2. For Model with 20 inch CRT, V POSITION are not required in EVR adjustment.

#### 7.3.3.1. EVR ADJUSTMENT ITEM

The following Items need to be adjusted for EVR adjustment.

- SUB CONTRAST ADJUSTMENT
- FOCUS, SCREEN, CUT OFF, DRIVE ADJUSTMENT
- SUB COLOR/SUB TINT ADJUSTMENT

- V. HEIGHT/H. POSITION ADJUSTMENT
- WHITE BALANCE ADJUSTMENT
- SUB BRIGHTNESS ADJUSTMENT

7.3.3.2. HOW TO ENTER EVR ADJUSTMENT MODE

Press and hold STOP, PLAY, and VOL- buttons on the unit together over 5 seconds with no cassette inserted.

The adjustment overlay will appear.



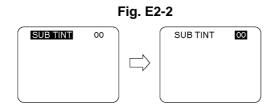
7.3.3.2.1. How to adjust:

1. Press CH UP/DOWN key on the remote control to select control function to be adjusted.

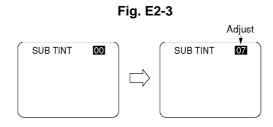
#### **Important Note:**

Make a note of the original value of the controls before modifying in case the wrong control is adjusted.

2. Press VOL -/+ key on the remote control so that the shaded area moves to the value.



3. Press CH UP/DOWN key on the remote control to adjust the value of the selected control.

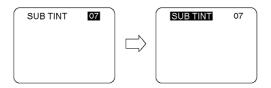


#### Note:

You can select a desired channel by using the numbered keys on the remote control in EVR adjustment mode.

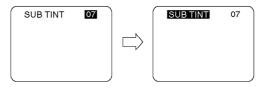
4. Press VOL -/+ key on the remote control so that the shaded area moves to the control function.

Fig. E2-4



5. Press CH UP/DOWN key on the remote control to select a control function for the next adjustment if necessary.

Fig. E2-5



7.3.3.2.2. How to release from EVR Adjustment Mode:

Press and hold STOP, PLAY, and VOL- buttons on the unit together over 5 seconds again or press the POWER button OFF to release EVR adjustment mode. The adjusted value will be written to Memory IC (IC6004).

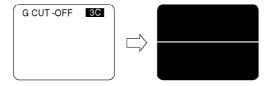
7.3.3.3. HOW TO ENTER SERVICE MODE

- 1. Enter EVR adjustment mode.
- 2. Press DISPLAY key on the remote control for collapse scan.

#### Note

Before pressing DISPLAY key on the remote control for collapse scan, select the desired control function and move the shaded area to the value for adjustments you will proceed.

Fig. E2-6



7.3.3.3.1. How to release from Service Mode: Press DISPLAY key again on the remote control.

# 7.3.4. SUB CONTRAST ADJUSTMENT

# **Purpose:**

To set the optimum sub contrast level.

# **Symptom of Misadjustment:**

The picture is too dark or too light.

#### **Test Point:**

Pin 5 of P6001 (TV/VCR Main C.B.A.) or TP49 (CRT C.B.A.)

#### Adjustment:

# **SUB CONTRAST (EVR)**

**Specification:** 

3.0 V[p-p]±0.1 V[p-p]

**INPUT:** 

Video Input Jack, Crosshatch Pattern Signal 1 V[p-p] (75 Ω terminated)

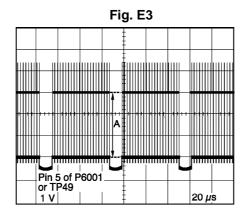
Mode:

**STOP** 

**Equipment:** 

Oscilloscope, NTSC Video Pattern Generator

- 1. Supply a Crosshatch Pattern Signal to the Video Input Jack.
- 2. Connect the Oscilloscope to Pin 5 of P6001 on the TV/VCR Main C.B.A. or TP49 on the CRT C.B.A.
- 3. Select SUB BRIGHT in EVR adjustment mode. Then, after making a note of the original value, adjust to the (C0).
- 4. Select SUB CONTRAST in EVR adjustment mode and adjust so that the level A is 3.0 V[p-p]±0.1 V[p-p].
- 5. Select SUB BRIGHT in EVR adjustment mode and reset to the original value.



7.3.5. FOCUS, SCREEN, CUT OFF, DRIVE ADJUSTMENT

# Purpose:

To set the optimum Focus and Screen.

**Symptom of Misadjustment:** 

The picture is out of Focus and there will be an improper screen color mix.

```
Test Point:
  TP50 (CRT C.B.A.)
Adjustment:
  FOCUS CONTROL (Flyback Transformer),
  SCREEN CONTROL (Flyback Transformer),
  SUB BRIGHT (EVR),
  B DRIVE (EVR),
  G DRIVE (EVR),
  B CUT -OFF (EVR),
  G CUT -OFF (EVR),
  R CUT -OFF (EVR)
Specification:
  Refer to descriptions below.
INPUT:
  Video Input Jack,
  Monoscope Pattern Signal
Mode:
  STOP
```

# **Equipment:**

Oscilloscope, NTSC Video Pattern Generator

- 1. Supply a Monoscope Pattern Signal to the Video Input Jack.
- 2. Connect the Oscilloscope to TP50 on the CRT C.B.A. (Use TP47 for GND.)
- 3. Select SUB BRIGHT and move the shaded area to the value in EVR adjustment mode.
- 4. Adjust the FOCUS CONTROL on the Flyback Transformer so that the center of picture is the sharpest.
- 5. Turn the SCREEN CONTROL on the Flyback Transformer fully counterclockwise.
- 6. Press DISPLAY key on the remote control for collapse scan.

# (Refer to **HOW TO ENTER SERVICE MODE**.)

7. Adjust SUB BRIGHT in EVR adjustment mode so that the level A is (140 VDC±5 VDC: For model with 13 inch CRT) or (170 VDC±5 VDC: For model with 20 inch CRT).

- 8. Turn the SCREEN CONTROL on the Flyback Transformer clockwise carefully and stop at the point where any color is first observed.
- 9. In EVR adjustment mode, select the two colors not observed in step 8 from the following control functions (B CUT -OFF, G CUT -OFF, or R CUT -OFF) and adjust so that the horizontal line becomes white.

For example, if the horizontal line appeared red in step 8, select and adjust the B CUT -OFF and G CUT -OFF. (See NOTE)

- 10. Press DISPLAY key on the remote control again to return for full frame scan.
- 11. Select SUB BRIGHT in EVR adjustment mode and adjust so that the picture has adequate brightness.
- 12. Select G DRIVE and B DRIVE in EVR adjustment mode and adjust so that the entire screen is white.

#### Note:

Before pressing DISPLAY key on the remote control for collapse scan, select the desired control function and move the shaded area to the value.

7.3.6. SUB COLOR / SUB TINT ADJUSTMENT

# **Purpose:**

To set the standard color phase.

# **Symptom of Misadjustment:**

Color phase will be shifted.

#### **Test Point:**

**Pin 5 of P6001 (TV/VCR Main C.B.A.) or TP49 (CRT C.B.A.)** 

#### Adjustment:

SUB COLOR (EVR), SUB TINT (EVR)

#### **Specification:**

C = 1.40 V[p-p]±0.15 V[p-p] (For model with 13 inch CRT) C = 1.50 V[p-p]±0.15 V[p-p] (For model with 20 inch CRT)

#### **INPUT:**

Video Input Jack, Rainbow Color Bar

#### Mode:

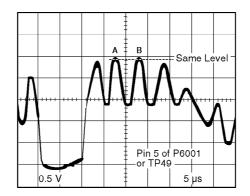
**STOP** 

# **Equipment:**

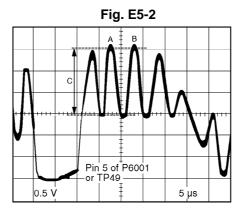
Oscilloscope, NTSC Video Pattern Generator

- 1. Supply the Rainbow Color Bar signal to Video Input Jack.
- 2. Select SUB BRIGHT in EVR adjustment mode. Then, after making a note of the original value, adjust to the minimum (C0).
- 3. Connect the Oscilloscope to Pin 5 of P6001 on the TV/VCR Main C.B.A. or TP49 on the CRT C.B.A.
- 4. Select SUB TINT in EVR adjustment mode and adjust so that level A and B should be equal in amplitude.

Fig. E5-1



5. Select SUB COLOR in EVR adjustment mode and adjust so that the level C is (1.40 V[p-p]±0.15 V[p-p]: For model with 13 inch CRT) or (1.50 V[p-p]±0.15 V[p-p]: For model with 20 inch CRT).



- 6. Select SUB TINT in EVR adjustment mode and increase level B 1 click above the same level.
- 7. Select SUB BRIGHT in EVR adjustment mode and reset to the original value.

#### 7.3.7. V. HEIGHT / H. POSITION ADJUSTMENT

# Purpose:

To set the standard vertical and horizontal picture size.

# **Symptom of Misadjustment:**

The picture size is on the vertical and horizontal axis is abnormal.

Test Point:

Adjustment:

V SIZE (EVR), H-CENTER (EVR), V POSITION (EVR)

# (For model with 13 inch CRT)

# **Specification:**

Refer to descriptions below.

**INPUT:** 

Video Input Jack, Monoscope Pattern Signal

Mode:

**STOP** 

**Equipment:** 

**NTSC Video Pattern Generator** 

(For model with 13 inch CRT)

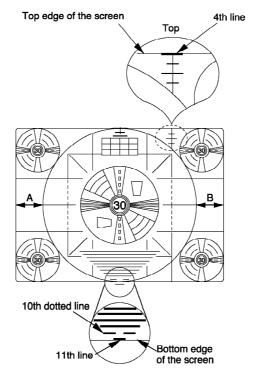
- 1. Supply a Monoscope Pattern Signal to the Video Input Jack.
- 2. Select H-CENTER in EVR adjustment mode and adjust so that width A is approximately equal to width B.

Note:

Width A is wider than width B slightly.

- 3. Select V SIZE in EVR adjustment mode and adjust so that the 11rd line is just in view.
- 4. If the line are not positioned correctly, select V POSITION in adjustment mode and adjust correctly.

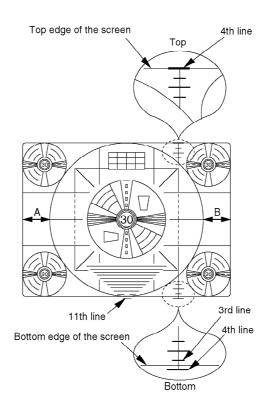
Fig. E6-1



(For model with 20 inch CRT)

- 1. Supply a Monoscope Pattern Signal to the Video Input Jack.
- 2. Select H-CENTER in EVR adjustment mode and adjust so that A is approximately equal to width B.
- 3. Select V SIZE in EVR adjustment mode and adjust so that the top 4th line is just in view.
- 4. Confirm that the bottom 3rd line is in view and that the bottom 4th line is out of view.

Fig. E6-2



#### 7.3.8. WHITE BALANCE ADJUSTMENT

# **Purpose:**

To set the standard white level for each color temperature.

# **Symptom of Misadjustment:**

White becomes bluish or reddish.

#### **Test Point:**

TP50 (CRT C.B.A)

# Adjustment:

FOCUS CONTROL (Flyback Transformer),
SCREEN CONTROL (Flyback Transformer),
SUB BRIGHT (EVR),
G DRIVE (EVR),
B DRIVE (EVR),
R CUT -OFF (EVR),
G CUT -OFF (EVR),
B CUT -OFF (EVR)

# **Specification:**

Refer to descriptions below.

#### **INPUT:**

Video Input Jack, Monoscope Pattern Signal, White Pattern Signal

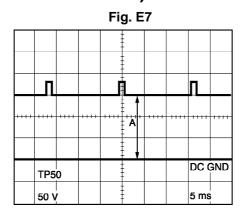
Mode:

**STOP** 

#### **Equipment:**

NTSC Video Pattern Generator, White Pattern Generator, Oscilloscope

- 1. Supply a Monoscope Pattern Signal to the Video Input Jack.
- 2. Connect the Oscilloscope to TP50 on the CRT C.B.A. (Use TP47 for GND.)
- 3. Select SUB BRIGHT and move the shaded area to the value in EVR adjustment mode.
- 4. Adjust the FOCUS CONTROL on the Flyback Transformer so that the center of picture is the sharpest.
- 5. Turn the SCREEN CONTROL on Flyback Transformer fully counterclockwise.
- 6. Press DISPLAY key on the remote control for collapse scan. (Refer to <u>HOW TO ENTER SERVICE MODE</u>.)
- 7. Adjust SUB BRIGHT in EVR adjustment mode so that the level A is (140 VDC±5 VDC: For model with 13 inch CRT) or (170 VDC±5 VDC: For model with 20 inch CRT).



8. Turn the SCREEN CONTROL on the Flyback Transformer

- clockwise carefully and stop at the point where any color is first observed.
- 9. In EVR adjustment mode, select the two colors not observed in step 8 from the following control functions (B CUT -OFF, G CUT -OFF, or R CUT -OFF) and adjust so that the horizontal line becomes white.

For example, if the horizontal line appeared red in step 8, select and adjust the B CUT -OFF and G CUT -OFF. (See NOTE)

- 10. Supply a White Pattern Signal to the Video Input Jack.
- 11. Press DISPLAY key on the remote control again to return for full frame scan.
- 12. Select G DRIVE and B DRIVE in EVR adjustment mode and adjust so that the entire screen is white.
- 13. Select SUB BRIGHT in EVR adjustment mode. Then, after making a note of the original value, adjust to the minimum (C0) and while turning SUB BRIGHT value from minimum (C0) up to maximum (3F), confirm that the screen is tracking the White Patternproperly. Repeat the above steps 5, 9, 11, and 12 until the screen is properly tracking the White Pattern.

#### Note:

Before pressing DISPLAY key on the remote control for collapse scan, select the desired control function and move the shaded area to the value.

# 7.3.9. SUB BRIGHTNESS ADJUSTMENT

#### Purpose:

To set the optimum brightness level.

# Symptom of Misadjustment:

The picture is too white or too black.

Test Point :
-----Adjustment :
SUB BRIGHT (EVR)

# **Specification:**

Refer to descriptions below.

**INPUT:** 

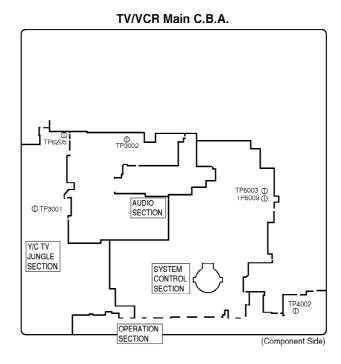
-----

Mode:

**STOP** 

- 1. Do not input any signal to the unit.
- 2. Set INPUT SELECT item to LINE in SET UP TV menu to display black screen.
- 3. Select SUB BRIGHT in EVR adjustment mode, and adjust so that the black screen starts to turn gray (lighting only).

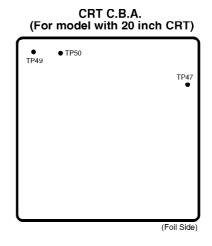
# 7.4. TEST POINTS AND CONTROL LOCATION



ı	FUNCTION OF IMPORTANT TEST POINTS		
TP3001	Video Signal		
TP3002	REC/PB Video envelope signal		
TP4002	Normal Audio signal		
TP6003	Defeat Auto tracking function (connect to +5V(TP6009))		
TP6009	+5V		
TP6205	Head SW.		

# **Test Point Information**

- $\bullet$  Test Point with a Test Pin.
- ① Test Point with a jumper wire across a hole in the P.C.B.
- O Test Point with no Test Pin.

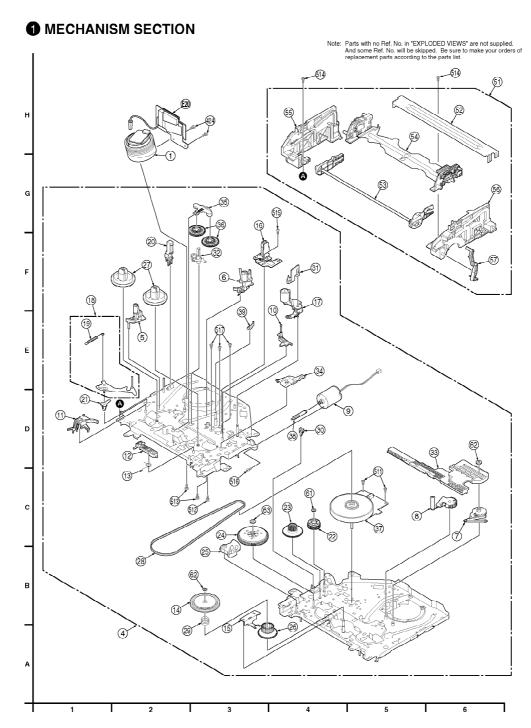


# 8. SCHEMATIC DIAGRAMS

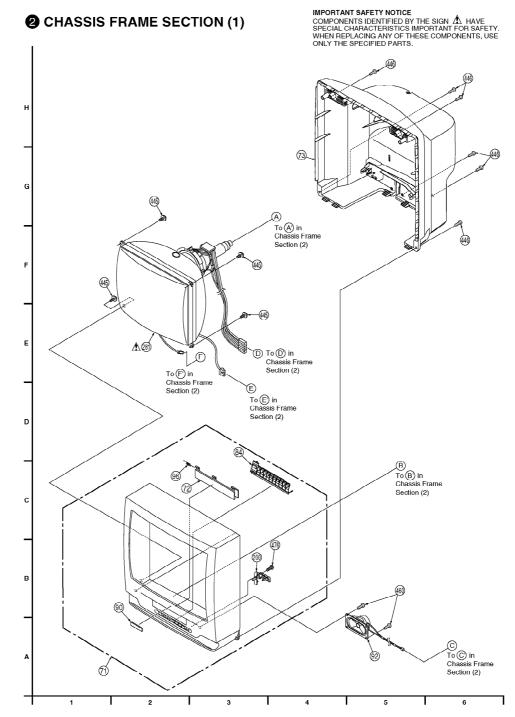
- 8.1. SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES
- 8.2. TV / VCR MAIN SCHEMATIC DIAGRAM
- 8.3. HEAD AMP SCHEMATIC DIAGRAM
- 8.4. CRT SCHEMATIC DIAGRAM (Models: PV-C1324-K / PV-C1334W-K)
- 8.5. CRT SCHEMATIC DIAGRAM (Model: PV-C2024-K)
- 8.6. INTERCONNECTION SCHEMATIC DIAGRAM
- **8.7. VOLTAGE CHART**
- 8.8. SIGNAL WAVEFORMS

# 9. CIRCUIT BOARD LAYOUT

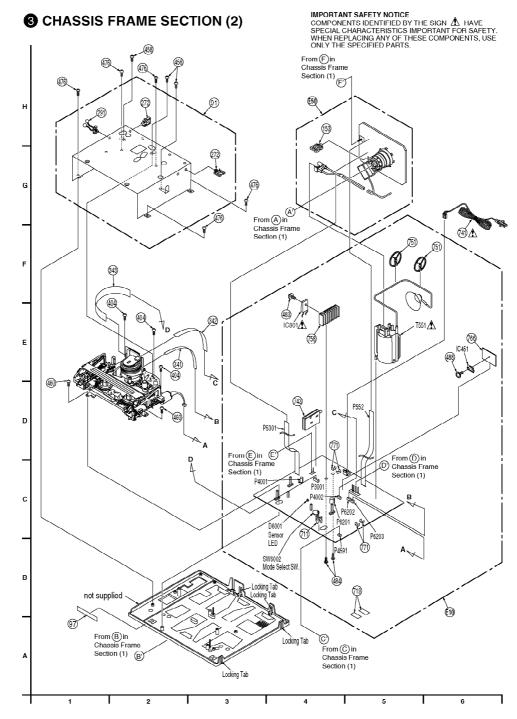
- 9.1. TV / VCR MAIN C.B.A.
- 9.2. HEAD AMP C.B.A. / CRT C.B.A.
- 10. BLOCK DIAGRAMS
- 11. EXPLODED VIEWS (Models: PV-C1324-K / PV-C1334W-K)
- 11.1. MECHANISM SECTION



11.2. CHASSIS FRAME SECTION (1)

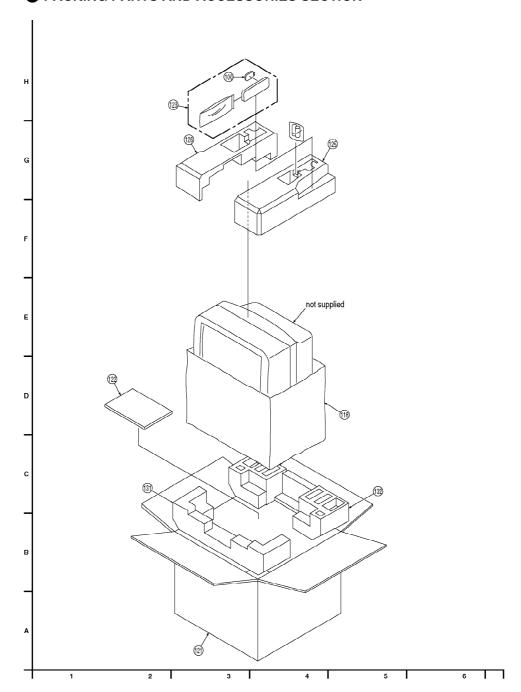


11.3. CHASSIS FRAME SECTION (2)



11.4. PACKING PARTS AND ACCESSORIES SECTION

### **4** PACKING PARTS AND ACCESSORIES SECTION



# 12. REPLACEMENT PARTS LISTS (Models: PV-C1324 -K / PV-C1334W-K)

BEFORE REPLACING PARTS, READ THE FOLLOWING:

# **12.1. REPLACEMENT NOTES**

# 12.1.1. General Notes

# 1. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list.

#### 2. IMPORTANT SAFETY NOTICE

Components identified by the sign  $\triangle$  have special characteristics important for safety. When replacing any of these components, use only the specified parts.

#### 3. SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

- 4. Parts with no Ref. No. in "EXPLODED VIEWS" are not supplied. And some Ref. No. will be skipped. Be sure to make your orders of replacement parts according to the parts list.
- 5. Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.
- 6. Definition of Parts supplier:
  - A. Parts with mark "MKE" in the Remarks column are supplied from MKE.
  - B. Parts without mark in the Remarks column are supplied from MKI.
- 7. Item numbers with capital letter E (Example: E10, E20,...) in the Ref. No. column are shown in the exploded views.
- 8. Parts whose Ref. Nos. are the same are interchangeable as replacement parts. Any of these parts may be ordered and used as a replacement part.

#### 12.1.2. Mechanical Replacement Notes

- 1. Section No. of parts shown in Exploded Views are indicated in the Remarks column.
- 2. The Mechanical Chassis Sub Ass'y (Ref. No. 4) consists of all the mechanical parts except the Cylinder Unit (Ref. No. 1), and the Cassette Up Ass'y (Ref. No. 51).

After replacing the Mechanical Chassis Sub Ass'y, be sure to perform "TAPE INTERCHANGEABILITY ADJUSTMENT" in Service Manual for R4-Mechanism - Chassis - for - PV-Model (Order No. MKE0401000C1).

3. The Infrared Remote Control Unit (Ref. No. 123) replacement part is available as a complete assembly unit only. Do not try to disassemble the Infrared Remote Control Unit. However, the battery cover is available separately as a replacement part.

#### 12.1.3. Electrical Replacement Notes

1. Unless otherwise specified; All resistors are in  $\Omega$ , K = 1,000  $\Omega$ , M = 1,000 k  $\Omega$ .

2. Abbreviation

#### RTL:

**Retention Time Limited** 

This indicates that the retention time is limited for this item. After the discontinuation of this item in production, it will no longer be available.

NR:

Non Repairable Board Ass'y

MGF CHIP:

Metal Glaze Film Chip

C CHIP:

**Ceramic Chip** 

**COMPLX CMP:** 

**Complex Component** 

W FLMPRF:

**Wirewound Flameproof** 

C.B.A.:

**Circuit Board Assembly** 

P.C.B.:

**Printed Circuit Board** 

**E.S.D.**:

**Electrostatically Sensitive Devices** 

- 3. When replacing 0  $\Omega$  resistor, a wire can be substituted for it.
- 4. Since the UHF/VHF TUNER/TV DEMODULATOR UNIT (Ref. No. 743) has already been pre-adjusted at the factory, do not try to adjust the UHF/VHF TUNER/TV DEMODULATOR UNIT. The UHF/VHF TUNER/TV DEMODULATORUNIT replacement part is available as a complete assembly unit only.
- 5. EEP ROM IC (IC6004) replacement note:
  There are 2 types of EEPROM IC (IC6004) used on the Main C.B.A.
  (DIP TYPE and SOP TYPE). However, these are same reliability,
  please refer to "TV/VCR MAIN C.B.A." in CIRCUIT BOARD
  LAYOUT.

**COMPARISON CHART OF MODELS & MARKS** 

MODEL	MARK
	Α
PV-C1324-K	В
	С
PV-C1334W-K	D
	Е
	F

#### 12.2. MECHANICAL REPLACEMENT PARTS LIST

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
	Α
PV-C1324-K	В
	С
PV-C1334W-K	D
	Е
	F

**Definition of Parts supplier:** 

- 1. Parts with mark "MKE" in the Remarks column are supplied from MKE.
- 2. Parts without mark in the Remarks column are supplied from MKI.

**MECHANICAL REPLACEMENT PARTS** 

Ref. No.	Part No.	Part Name & Description	Remarks
1	LSEG0119	CYLINDER UNIT	1
<u>4</u>	LSXY0543	MECHANICAL CHASSIS SUB ASS'Y	1 RTL
<u>5</u>	VXA7105	SUPPLY SHAFT HOLDER UNIT	1
<u>6</u>	VXA7106	TAKE UP SHAFT HOLDER UNIT	1
<u>7</u>	VXL3107	SUPPLY LOADING ARM UNIT	1
<u>8</u>	VXL3108	TAKE UP LOADING ARM UNIT	1
<u>9</u>	VEM0796	LOADING MOTOR UNIT	1
<u>10</u>	VXL3110	P5 ARM UNIT	1
<u>11</u>	VXL3112	SUPPLY BRAKE ARM UNIT	1
<u>12</u>	VXL3121	T BRAKE ARM UNIT	1
13	VMB3548	TAKE UP BRAKE SPRING	1
<u>14</u>	VXP2133	CENTER CLUTH UNIT	1
<u>15</u>	VXL3124	CHANGING LEVER UNIT	1
<u>16</u>	LSEH0012	AC HEAD UNIT	1
17	VXL3109	PINCH ARM UNIT	1
18	VXL3111	TENSION ARM UNIT	1
19	VMB3547	TENSION SPRING	1
20	L1AG00000011	FE HEAD	1
 21	VDB1431	TENSION ARM BOSH	1
 22	VXP2168	TORQUE CLUTCH UNIT	1
 23	VDG1510	INTERMEDIATE GEAR	1
 24	VDG1511	MAIN CAM GEAR	1
 25	VXA7311	SECTOR GEAR UNIT	1
 26	VDG1514	CHANGE GEAR	1
<u> </u>	VDR0372	REEL TABLE	1
28	VDV0391	CAPSTAN BELT	1
<u>=-</u> 29	VMB3550	CHANGING GEAR SPRING	1
30	VMD4987	WORM BEARING	1
31	VMD4252	OPENER PIECE	1
32	VMD4253	LED PRISM	1
33	VML3624	MAIN LEVER	1
34	VML3626	PINCH CHARGE ARM	1
35	VML3632	IDLER ARM	1
36	VML3632 VDG1512	IDLER GEAR	1
	VEM0800	CAPSTAN ASS'Y	1
<u>37</u>		WORM GEAR	1
<u>38</u>	VDG1637		
<u>39</u>	VMX3377	P4 CAP	1
<u>51</u>	LSXY0541	CASSETTE UP ASS'Y	1
<u>52</u>	VMA0L25	TOP PLATE	1
<u>53</u>	VXL3160	MAIN SHAFT UNIT	1
<u>54</u> 	VXA7110	CASSETTE HOLDER UNIT	1
<u>55</u>	VMD4255	SIDE PLATE D	1
<u>56</u> 	VMD4985	SIDE PLATE R	1
<u>57</u>	LSML0367	OPENER LEVER 2	1
<u>61</u>	VMX2208	CUT WASHER,STEEL	1
<u>62</u>	VMX3196	CUT WASHER,STEEL	1
<u>63</u>	VMX2699	CUT WASHER	1
<u>71</u>	LSYY0043	FRONT CABINET ASS'Y ( A,B )	2
71	LSYY0046	FRONT CABINET ASS'Y ( C,D )	2
<u>72</u>	LSKF0542	CASSETTE DOOR-LID ( A,B )	2
72	LSKF0544	CASSETTE DOOR-LID ( C,D )	2
<u>73</u>	LSGV0074	BACK COVER (A)	2
73	LSYY0139	BACK COVER UNIT (B)	2
73	LSGV0079	BACK COVER (C)	2

Ref. No.	Part No.	Part Name & Description	Remarks
73	LSYY0140	BACK COVER UNIT ( D )	2
84	LSGU0592	OPERATION BUTTON ( A,B )	2
84	LSGU0597	OPERATION BUTTON ( C,D )	2
90	TBM153023	BADGE,ABS RESIN	2
<u>91</u>	LSXA0563	TOP SHIELD PLATE ASS'Y	3
92	LXQAS01J13	SPEAKER UNIT	2
96	LSMB0289	CASSETTE DOOR SPRING	2
97	LSGQ0117	SPACER	3
100	EUR77EC2406A	BATTERY COVER	4
118	LPE64003A	BAG,POLYETHYLENE	4
121	LSPG1633	PACKING CASE,PAPER ( A,B )	4
121	LSPG1634	PACKING CASE,PAPER ( C,D )	4
122	LSQF0767	FAN BAG (A,C)	4
122	LSQF0804	FAN BAG (B,D)	4
123	EUR7723010	INFRARED REMOTE CONTROL UNIT	4
125	LPJ61029A	TOP CUSHION RIGHT, STYROFORM	4
126	LPJ61030A	TOP CUSHION LEFT,STYROFORM	4
131	LPJ62029A	BOTTOM CUSHION FRONT, STYROFORM	4
132	LPJ62030A	BOTTOM CUSHION REAR, STYROFORM	4
153	TMM7443-1	CLAMPER	3
200	LKK683010A	PANEL LIGHT	2
<del>200</del> 272	TMM77412	CLAMPER	3
281	LSEQ0728	PICTURE TUBE UNIT	2 <u>A</u>
 291	LML69002A	CLAMPER	3
341	LSJW0060	FLEXIBLE FLAT CABLE W/OUT PLUG	3
342	LSJW0061	FLEXIBLE FLAT CABLE W/OUT PLUG	3
343	LSJW0048	FLEXIBLE FLAT CABLE W/OUT PLUG	3
	VHDS0472	SCREW,STEEL	3
404	XYC26+SF6J	· · · · · · · · · · · · · · · · · · ·	1
424	LHT60002Y	SCREW W/WASHER,STEEL	2
445		SCREW,STEEL	
446 450	XTV4+16A	TAPPING SCREW,STEEL	2
<u>458</u>	XTV3+8J	TAPPING SCREW,STEEL	3
460	XTN4+12A	TAPPING SCREW,STEEL	2,3
476	XTV3+12G	TAPPING SCREW,STEEL	2,3
483	XYN3+F10S	SCREW W/WASHER,STEEL	3
484	XTW3+10J	TAPPING SCREW,STEEL	3
<u>488</u>	XYN3+F6S	SCREW W/WASHER,STEEL	3
<u>511</u>	XTV26+5F	SCREW,STEEL	1
<u>512</u>	VHD1095	SCREW,STEEL	1
<u>513</u>	VHD1117	SCREW,STEEL	1
<u>514</u>	XTV26+8FR	SCREW,STEEL	1
<u>515</u>	VHD1044	SCREW,STEEL	1
<u>516</u>	XYN3+C4	SCREW W/WASHER,STEEL	1
<u>517</u>	XTN26+7J	SCREW,STEEL	1
<u>711</u>	PNA4611M00HC	INFRARED RECEIVER UNIT	3
<u>719</u>	VMFS0136	CUSHION	3
741	LSJA0362	AC CORD W/PLUG,120V	з 🕭
741	LSJA0343	AC CORD W/PLUG,120V	з 🕭
741	LSJA0364	AC CORD W/PLUG,120V	з 🕭
<u>743</u>	ENG36A11GF	TUNER,UHF/VHF NR	3
<u>751</u>	LML69001A	ANODE LEAD CLAMPER	3
<u>758</u>	TUC77616	HEAT SINK	3
<u>766</u>	TUC76677-1	HEAT SINK	3
	•	•	ĭ

100	10010011 1	IIIEAI VIIII	
Ref. No.	Part No.	Part Name & Description	Remarks
<u>771</u>	EYF52BC	FUSE HOLDER	3
E10	LSEP2127P	TV/VCR MAIN C.B.A.	3 RTL
<u>E20</u>	LSEP2128A	HEAD AMP C.B.A.	1 RTL
<u>E50</u>	LRP63004D	CRT C.B.A.	3 RTL

#### SERVICE FIXTURES AND TOOLS

Ref. No.	Part No.	Part Name & Description	Remarks
	VFMS0003H6	VHS ALIGNMENT TAPE	MKE
	VFKS0081	GREASE	MKE
	VFK0329	POST ADJUSTMENT DRIVER	MKE
	VFK27	HEAD CLEANING STICK	MKE
	VFK0330	H-POSITION ADJUSTMENT DRIVER	MKE

# 12.3. ELECTRICAL REPLACEMENT PARTS LIST

**Definition of Parts supplier:** 

# 1. All parts are supplied from MKI.

#### PRINTED CIRCUIT BOARD ASSEMBLY

Ref. No.	Part No.	Part Name & Description	Remarks
E10	LSEP2127P	TV/VCR MAIN C.B.A.	E.S.D. RTL
E20	LSEP2128A	HEAD AMP C.B.A.	RTL
E50	LRP63004D	CRT C.B.A.	RTL

# 12.3.1. TV / VCR MAIN C.B.A.

#### INTEGRATED CIRCUITS

Ref. No.	Part No.	Part Name & Description	Remarks
IC451	C1AA00000024	IC, LINEAR	
IC501	CNC1S101R1KT	IC, LINEAR	Δ
IC501	CNC1S101S1KT	IC, LINEAR	A
IC501	ON3131-S.KT	IC, LINEAR	A
IC501	PS2501-1-X	IC, LINEAR	A
IC502	CNC1S101R2KT	IC, LINEAR	A
IC801	C5HABZZ00051	IC, LINEAR	A
IC1001	CNC1S101R1KT	IC, LINEAR	A
IC1001	CNC1S101S1KT	IC, LINEAR	A
IC1002	C0DAEMZ00005	IC, LINEAR	
IC1002	B1AZKD000001	IC, LINEAR	
IC1002	C0DAEMZ00001	IC, LINEAR	
IC3001	AN3479FBP-A	IC, LINEAR	
IC3201	MN3885S	IC, LINEAR	E.S.D.
IC3371	C1AB00001487	IC, LINEAR	
IC4501	C1AA00000652	IC, LINEAR	
IC5301	AN15167A-VT	IC, LINEAR	
IC6001	LSSK0052	IC, 16BIT MICROCONTROLLER	E.S.D.
IC6002	B3NAA0000049	PHOTO INTERRUPUTER	

Ref. No.	Part No.	Part Name & Description	Remarks
IC6003	B3NAA0000049	PHOTO INTERRUPUTER	
IC6004	LSSK0044	IC, 1K EEP ROM	
IC6005	C0EBJ0000080	IC, CMOS STANDARD LOGIC	E.S.D.
IC6005	C0EBJ0000099	IC, CMOS STADNARD LOGIC	E.S.D.
IC6005	RN5VS47CA-TR	IC, CMOS STANDARD LOGIC	E.S.D.
IC6201	C1AB00001767	IC, LINEAR	

# **TRANSISTORS**

Ref. No.	Part No.	Part Name & Description	Remarks
Q431	2SA733-TQ	TRANSISTOR SI PNP	
Q431	2SA1175	TRANSISTOR SI PNP	
Q431	2SA1175-TH	TRANSISTOR SI PNP	
Q501	B1AACN000013	TRANSISTOR SI NPN	
Q531	2SA733-TQ	TRANSISTOR SI PNP	
Q531	2SA1175	TRANSISTOR SI PNP	
Q531	2SA1175-TH	TRANSISTOR SI PNP	
Q532	2SC3311AHA	TRANSISTOR SI PNP CHIP	
Q551	B1BAET000006	TRANSISTOR SI NPN	Δ
Q551	B1GARRAB0001	TRANSISTOR SI NPN	Δ
Q571	2SD0601A0L	TRANSISTOR SI NPN CHIP	
Q571	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q581	B1ACBM000001	TRANSISTOR SI PNP CHIP	
Q581	B1ACBN000001	TRANSISTOR SI PNP CHIP	
Q581	2SA17670QA	TRANSISTOR SI PNP CHIP	
Q581	2SB12210QA	TRANSISTOR SI PNP CHIP	
Q801	2SC945A-TKA	TRANSISTOR SI NPN	
Q801	2SC1684-Q	TRANSISTOR SI NPN	
Q801	2SC1684-S	TRANSISTOR SI NPN	
Q801	2SC16840RA	TRANSISTOR SI NPN	
Q801	2SC2785-TE	TRANSISTOR SI NPN	
Q801	2SC2785-TF	TRANSISTOR SI NPN	
Q801	2SC2785-TH	TRANSISTOR SI NPN	
Q801	2SC2785-TJ	TRANSISTOR SI NPN	
Q801	2SC2785-TK	TRANSISTOR SI NPN	
Q801	2SC3311AQA	TRANSISTOR SI NPN	
Q801	2SC3311ARA	TRANSISTOR SI NPN	
Q801	2SC3311ASA	TRANSISTOR SI NPN	
Q801	2SC945A-TPA	TRANSISTOR SI NPN	
Q801	2SC945A-TQA	TRANSISTOR SI NPN	
Q1001	B1DEEQ000001	TRANSISTOR FET	Δ
Q1001	B1DEEQ000006	TRANSISTOR FET	Δ
Q1002	2SC3311AHA	TRANSISTOR SI PNP CHIP	
Q1003	2SC3311AHA	TRANSISTOR SI PNP CHIP	
Q1201	UNR211100L	TRANSISTOR COMPLX CMP SI NPN CHIP	
Q1201	B1GDCFJJ0002	TRANSISTOR COMPLX CMP SI NPN CHIP	
Q1202	2SD0601AHL	TRANSISTOR SI NPN CHIP	
Q1202	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q1205	B1BACC000010	TRANSISTOR SI NPN	
Q1205	2SD1581-T	TRANSISTOR SI NPN	
Q1206	2SD235800A	TRANSISTOR SI NPN CHIP	
Q1206	B1AAQB000002	TRANSISTOR SI NPN	

Ref. No.	Part No.	Part Name & Description	Remarks
Q1207	2SD0601AHL	TRANSISTOR SI NPN CHIP	
Q1207	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q1208	B1BACC000010	TRANSISTOR SI NPN	
Q1208	2SD1581-T	TRANSISTOR SI NPN	
Q1209	2SD0601AHL	TRANSISTOR SI NPN CHIP	
Q1209	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q3001	2SB1218A0L	TRANSISTOR SI PNP CHIP	
Q3001	B1ADCF000063	TRANSISTOR SI PNP CHIP	
Q3002	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q3002	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q3301	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q3301	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q4001	2SB1218A0L	TRANSISTOR SI PNP CHIP	
Q4001	B1ADCF000063	TRANSISTOR SI PNP CHIP	
Q4002	2SD1819AHL	TRANSISTOR SI NPN CHIP	
Q4003	2SD1819AHL	TRANSISTOR SI NPN CHIP	
Q4101	2SD0601ARL	TRANSISTOR SI NPN CHIP	
Q5301	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q5301	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q5901	2SD225900A	TRANSISTOR SI NPN	
Q6001	2SB0709A0L	TRANSISTOR SI PNP CHIP	
Q6001	B1ADCF000001	TRANSISTOR SI PNP CHIP	
Q6002	2SD0601A0L	TRANSISTOR SI NPN CHIP	
Q6002	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q6003	2SD0601A0L	TRANSISTOR SI NPN CHIP	
Q6003	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q6005	2SB0709A0L	TRANSISTOR SI PNP CHIP	
Q6005	B1ADCF000001	TRANSISTOR SI PNP CHIP	
Q6006	2SD0601A0L	TRANSISTOR SI NPN CHIP	
Q6006	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q6009	VEKS9440	PHOTO SENSOR UNIT	
Q6010	VEKS9440	PHOTO SENSOR UNIT	
Q6216	2SD0601AHL	TRANSISTOR SI NPN CHIP	
Q6216	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q6217	2SD225900A	TRANSISTOR SI NPN	

# **DIODES**

Ref. No.	Part No.	Part Name & Description	Remarks
D401	B0EAKL000049	DIODE SI	Kemarks
D401	B0EAKL000044	DIODE SI	
D401	B0EAKL000045	DIODE SI	
D502	MA2C165001VT	DIODE SI	
D502	B0AACK000004	DIODE SI	
D502	1SS119	DIODE SI	
D503	B0HAGP000011	DIODE SI	
D503	B0HAJP000012	DIODE SI	
D504	MAZ40470MF	DIODE ZENER 4.7V	
D504	MAZ40470HF	DIODE ZENER 4.7V	
D504	RD4.7ESAB	DIODE ZENER 4.7V	
D504	RD4.7ESAB2	DIODE ZENER 4.7V	
D504	04AZ4.7ZTPA7	DIODE ZENER 4.7V	
D507	MA2C165001VT	DIODE SI	
D507	B0AACK000004	DIODE SI	
D507	1SS119	DIODE SI	
D553	B0HAGP000011	DIODE SI	
D553	B0HAJP000012	DIODE SI	
D554	B0AAEL000001	DIODE SI	
D554	MA167	DIODE SI	
D556	MA2C18500E	DIODE SI	
D558	B0HAGP000011	DIODE SI	
D558	B0HAJP000012	DIODE SI	
D560	B0HAMP000066	DIODE SI	
D571	MAZ40470MF	DIODE ZENER 4.7V	
D571	B0BA4R600003	DIODE ZENER 4.7V	
D571	RD4.7ESAB2	DIODE ZENER 4.7V	
D572	MAZ4110NHF	DIODE ZENER 11V	
D573	MA2C165001VT	DIODE SI	
D573	B0AACK000004	DIODE SI	
D573	1SS119	DIODE SI	
D574	MA2C165001VT	DIODE SI	
D574	B0AACK000004	DIODE SI	
D574	155119	DIODE SI	
D591	D4DDF5R00002	POSISTOR	
D591	VRPSKF5JM050	POSISTOR	_   Δ
D801	B0AAKT000010	DIODE SI	Δ
D801	B0EAKT000027	DIODE SI	Δ
D801	B0EAKT000030	DIODE SI	<u> </u>
D801	EM02BMV	DIODE SI	<u> </u>
D802	B0AAKT000010	DIODE SI	<u> </u>
D802	B0EAKT000027	DIODE SI	<u> A</u>
D802	B0EAKT000030	DIODE SI	<u> </u>
D802	EM02BMV	DIODE SI	<u> </u>
D803	B0AAKT000010	DIODE SI	<u>A</u>
D803	B0EAKT000027	DIODE SI	<u>A</u>
D803	B0EAKT000030	DIODE SI	<u></u>
D803	EM02BMV	DIODE SI	<u> </u>
D804	B0AAKT000010	DIODE SI	<u>A</u>

Ref. No.	Part No.	Part Name & Description	Remarks
D804	B0EAKT000027	DIODE SI	-
			<u> </u>
D804	B0EAKT000030	DIODE SI	Δ
D804	EM02BMV	DIODE SI	Δ
D805	MA2C16700E	DIODE SI	
D805	B0AAEL000001	DIODE SI	
D881	ERZV07Z361CS	VARISTORS	Δ
D1001	DB105G	DIODE SI	Δ
D1001	B0EBKR000003	DIODE SI	Δ
D1001	B0EBKR000020	DIODE SI	A
D1002	B0HAHP000014	DIODE SI	
D1002	B0HAJP000007	DIODE SI	
D1002	B0HAMP000061	DIODE SI	
D1002	B0HAMP000069	DIODE SI	
D1004	MAZ40360MF	DIODE ZENER 3.6V	
D1004	MA2C165001VT	DIODE SI	
D1005	B0AACK000004	DIODE SI	
D1005	1SS119	DIODE SI	
D1005	MA2C18500E	DIODE SI	
D1007	B0HAHP000014	DIODE SI	
D1007	B0HAJP000007	DIODE SI	
D1007	B0HAMP000061	DIODE SI	
D1007	B0HAMP000069	DIODE SI	
D1009	B0JAME000079	DIODE SI	
D1009	B0JAME000049	DIODE SI	
D1009	B0JANE000011	DIODE SI	
D1009	B0JANE000022	DIODE SI	
D1010	B0JANG000006	DIODE SI	
D1011	MAZ22000A	DIODE ZENER 20V	Δ
D1013	B0HAHP000014	DIODE SI	
D1013	B0HAJP000007	DIODE SI	
D1013	B0HAMP000061	DIODE SI	
D1013	B0HAMP000069	DIODE SI	
D1202	B0AAML000001	DIODE SI	
D1202	B0EAKL000008	DIODE SI	
D1204	B0AAML000001	DIODE SI	
D1204	B0EAKL000008	DIODE SI	
D1205	MAZ4100NHF	DIODE ZENER 10V	
D1205	RD10JSAB3	DIODE ZENER 10V	
D1207	MAZ4110NHF	DIODE ZENER 11V	
D1210	MA2C165001VT	DIODE SI	
D1210	B0AACK000004	DIODE SI	
D1210	1SS119	DIODE SI	
D1211	MA2C165001VT	DIODE SI	
D1211	B0AACK000004	DIODE SI	
D1211	1SS119	DIODE SI	
D5501	MAZ40620L1KT	DIODE ZENER 6.2V	Δ
	B3EA00000072	SENSOR LED	
D6001			
D6001 D6002	MA2C165001VT	DIODE SI	
D6002	MA2C165001VT	DIODE SI	
D6002 D6002	B0AACK000004	DIODE SI	
D6002			

Ref. No.	Part No.	Part Name & Description	Remarks
D6003	B0AACK000004	DIODE SI	
D6003	1SS119	DIODE SI	
D6009	MA2C165001VT	DIODE SI	
D6009	B0AACK000004	DIODE SI	
D6009	1SS119	DIODE SI	
D6010	MA2C165001VT	DIODE SI	
D6010	B0AACK000004	DIODE SI	
D6010	1SS119	DIODE SI	
D6011	MA2C165001VT	DIODE SI	
D6011	B0AACK000004	DIODE SI	
D6011	1SS119	DIODE SI	
D6201	MA2C165001VT	DIODE SI	
D6201	B0AACK000004	DIODE SI	
D6201	1SS119	DIODE SI	
D6202	MA2C165001VT	DIODE SI	
D6202	B0AACK000004	DIODE SI	
D6202	1SS119	DIODE SI	
D6204	MAZ4047NMF	DIODE ZENER 4.7V	
D6301	B3AAA0000538	LIGHT EMITTING DIODE RED	
D6303	B3ABA0000400	LIGHT EMITTING DIODE GREEN	
D6304	B3ACA0000192	LIGHT EMITTING DIODE ORANGE	

# **RESISTORS**

Ref. No.	Part No.	Part Name & Description	Remarks
R401	ERDS2TJ821T	CARBON 1/4W 820	
R402	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R405	ERDS2TJ102	CARBON 1/4W 1K	
R409	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R410	ERDS2TJ152	CARBON 1/4W 1.5K	
R411	ERJ6GEYJ823V	MGF CHIP 1/10W 82K	
R413	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R414	ERDS1FJ2R2	CARBON 1/2W 2.2	Δ
R422	ERD25FJ101P	CARBON 1/4W 100	Δ
R427	ERQ14ZJ1R5P	FUSE 1/4W 1.5	Δ
R431	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R432	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R433	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	
R434	ERDS2TJ103	CARBON 1/4W 10K	
R435	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R436	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R466	ERJ6GEYJ683V	MGF CHIP 1/10W 68K	
R468	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R472	ERDS2TJ472T	CARBON 1/4W 4700	
R480	ERDS2TJ562T	CARBON 1/4W 5.6K	
R501	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R502	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R503	EROS2THF9101	PRECISION METAL FILM 1/4W 9.1K	Δ
R503	EROS2TKF9101	PRECISION METAL FILM 1/4W 9.1K	Δ
R503	VRESR4TF9101	PRECISION METAL FILM 1/4W 9.1K	Δ
R504	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R505	ERDS2TJ561	CARBON 1/4W 560	

Ref. No.	Part No.	Part Name & Description	Remarks
R509	ERDS2TJ101	CARBON 1/4W 100	
R511	ERG2ANJ222H	METAL OXIDE 2W 2.2K	
R514	ERDS1FJ1R0P	CARBON 1/2W 1	Δ
R516	LAR05222J09	W FLMPRF 5W 2.2K	
R517	ERDS2TJ472T	CARBON 1/4W 4700	
R519	ERDS2TJ123T	CARBON 1/4W 12K	
R525	ERDS2TJ122T	CARBON 1/4W 1200	
R529	ERDS2TJ103	CARBON 1/4W 10K	
R531	ERDS2TJ223	CARBON 1/4W 22K	
R533	ERDS2TJ152	CARBON 1/4W 1.5K	
R534	ERDS2TJ561	CARBON 1/4W 560	
R535	ERDS2TJ471T	CARBON 1/4W 470	
R536	ERG2ANJ153H	METAL OXIDE 2W 15K	
R537	ERG2ANJ153H	METAL OXIDE 2W 15K	
R538	ERDS2TJ473T	CARBON 1/4W 47K	
R539	ERDS2TJ473T	CARBON 1/4W 47K	
R540	ERDS2TJ562T	CARBON 1/4W 5.6K	
R541	ERDS2TJ222T	CARBON 1/4W 2.2K	
R542	ERDS2TJ473T	CARBON 1/4W 47K	
R543	ERDS2TJ102	CARBON 1/4W 1K	
R544	ERDS2TJ101	CARBON 1/4W 100	
R545	ERDS2TJ152	CARBON 1/4W 1.5K	
R546	ERDS2TJ223	CARBON 1/4W 22K	
R552	ERDS2TJ472T	CARBON 1/4W 4700	
R553	ERDS2TJ102	CARBON 1/4W 1K	
R554	ERDS2TJ103	CARBON 1/4W 10K	
R555	ERDS2TJ154T	<b>CARBON 1/4W 150K</b>	
R556	ERDS2TJ823T	CARBON 1/4W 82K	
R557	ERG2SJ471H	METAL OXIDE 2W 470	
R558	ERG2ANJ471H	METAL OXIDE 2W 470	
R561	ERQ1CJP1R5S	FUSE 1W 1.5	<u> </u>
R571	ERDS2TJ101	CARBON 1/4W 100	
R572	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R573	ERDS2TJ221	CARBON 1/4W 220	
R574	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R581	ERDS1FJ2R2	CARBON 1/2W 2.2	$\triangle$
R582	ERDS1FJ2R2	CARBON 1/2W 2.2	<u>A</u>
R584	ERDS2TJ272	CARBON 1/4W 2.7K	
R585	ERDS2TJ473T	CARBON 1/4W 47K	
R586	ERDS2TJ393T	CARBON 1/4W 39K	
R801	ERF3AKR82	W FLMPRF 3W 0.82	Δ
R802	ERDS1FJ103P	CARBON 1/2W 10K	Δ
R802	ERDS1FPJ103	CARBON 1/2W 10K	A
R804	ERF10ZJ331	W FLMPRF 10W 330	
R805	ERDS2TJ104	CARBON 1/4W 100K	
R806	ERQ14AJ470P	FUSE 1/4W 47	<u> </u>
R810	ERDS2TJ103	CARBON 1/4W 10K	
R813	ERDS2TJ104	CARBON 1/4W 100K	
R818	VRESC2TK825T	SOLID 1/2W 8.2M	<u>A</u>
R865	ERDS2TJ222T	CARBON 1/4W 2.2K	
R1002	ERX1SJR22P	METAL OXIDE 1W 0.22	

Ref. No.	Part No.	Part Name & Description	Remarks
R1003	ERDS2TJ334T	CARBON 1/4W 330K	rtomarko
R1004	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R1006	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R1007	ERDS2TJ105T	CARBON 1/4W 1M	
R1008	ERDS2TJ105T	CARBON 1/4W 1M	
R1009	ERG2SJ331H	METAL OXIDE 2W 330	
R1010	ERDS2TJ272	CARBON 1/4W 2.7K	
R1011	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R1012	ERJ6GEYJ4R7V	MGF CHIP 1/10W 4.7	
R1013	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R1014	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R1015	ERD25FJ100P	CARBON 1/4W 10	Δ
R1015	ERD25FPJ100P	CARBON 1/4W 10	Δ
R1015	VRESF4FJ100P	CARBON 1/4W 10	Δ
R1017	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R1018	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R1020	D0HD222ZA002	MGF CHIP 2.2K	
R1021	D1BD2431A016	MGF CHIP 2.43K	
R1201	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R1204	ERDS2TJ331	CARBON 1/4W 330	
R1205	ERDS2TJ153	CARBON 1/4W 15K	
R1206	ERDS2TJ153	CARBON 1/4W 15K	
R1207	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R1208	ERDS2TJ153	CARBON 1/4W 15K	
R1209	ERDS2TJ153	CARBON 1/4W 15K	
R1210	ERJ6GEYJ122V	MGF CHIP 1/10W 1.2K	
R1212	ERJ6GEYJ122V	MGF CHIP 1/10W 1.2K	
R3001	ERDS2TJ101	CARBON 1/4W 100	
R3006	ERDS2TJ101	CARBON 1/4W 100	
R3016	ERJ6GEYJ121V	MGF CHIP 1/10W 120	
R3017	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R3024	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R3025	ERJ6GEYJ125V	MGF CHIP 1/10W 1.2M	
R3026	ERJ6GEYJ474V	MGF CHIP 1/10W 470K	
R3028	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R3029	ERJ6GEYJ151V	MGF CHIP 1/10W 150	
R3032	ERJ6GEYJ122V	MGF CHIP 1/10W 1.2K	
R3035	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R3036	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R3037	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R3038	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R3044	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R3045	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R3047	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R3077	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R3084	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R3086	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R3091	ERJ6GEYJ750V	MGF CHIP 1/10W 75	
R3301	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R3302	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R3303	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R3371		MGF CHIP 1/10W 0	
R3372	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
	I	L	

Ref. No.	Part No.	Part Name & Description	Remarks
R3373		MGF CHIP 1/10W 100	
R3374	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R4001	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R4002	ERJ6GEYJ334V	MGF CHIP 1/10W 330K	
R4003	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R4004	ERJ6GEYJ333V	MGF CHIP 1/10W 33K	
R4005	ERJ6GEYJ225V	MGF CHIP 1/10W 2.2M	
R4006	ERJ6GEYJ681V	MGF CHIP 1/10W 680	
R4007	ERJ6GEYJ821V	MGF CHIP 1/10W 820	
R4008	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R4009	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R4010	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R4011	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K	
R4012	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K	
R4014	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R4015	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
	ERJ6GEYJ682V		
R4018 R4021	ERJ6GEYJ473V	MGF CHIP 1/10W 6.8K MGF CHIP 1/10W 47K	+
		MGF CHIP 1/10W 47K	
R4101 R4102	ERJ6GEYJ563V ERJ6GEYJ154V	MGF CHIP 1/10W 56K	
	ERJ6GEYJ154V ERJ6GEYJ273V	MGF CHIP 1/10W 150K MGF CHIP 1/10W 27K	
R4103			
R4502	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R4504	ERJ6GEYJ823V	MGF CHIP 1/10W 82K	
R4509	ERDS2TJ100T	CARBON 1/4W 10	
R4523		MGF CHIP 1/10W 0	
R4591	ERDS2TJ681	CARBON 1/4W 680	
R4592	ERDS2TJ681	CARBON 1/4W 680	
R4593	ERDS2TJ681	CARBON 1/4W 680	
R4594	ERDS2TJ681	CARBON 1/4W 680	
R4701	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
R5301	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R5304	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R5305	ERJ6GEYJ224V	MGF CHIP 1/10W 220K	
R5306	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R5307	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R5308	ERJ6GEYJ563V	MGF CHIP 1/10W 56K	
R5309	ERJ6GEYJ274V	MGF CHIP 1/10W 270K	
R5311	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R5312	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R5313	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R5314	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R5315	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R5316	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R5317	ERDS2TJ101	CARBON 1/4W 100	
R5324	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5401	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
R5402	ERJ6GEYJ394V	MGF CHIP 1/10W 390K	
R5403	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R5405	ERJ6GEYJ822V	MGF CHIP 1/10W 8.2K	
R5406	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5501	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R5502	ERJ6GEYJ394V	MGF CHIP 1/10W 390K	
R5503	ERDS2TJ471T	CARBON 1/4W 470	1
R5504	ERJ6GEYJ101V	MGF CHIP 1/10W 100	

Ref. No.	Part No.	Part Name & Description	Remarks
R5505	ERJ6ENF3241V	MGF CHIP 1/10W 3.24K	Δ
R5506	ERDS2TJ473T	CARBON 1/4W 47K	
R5508	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
R5510	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5511	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R5512	ERDS2TJ151T	CARBON 1/4W 150	
R5513	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5604	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R5902	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R5932	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5933	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6001	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6002	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6003	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6005	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6006	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6007	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6008	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6009	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R6010	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6011	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6012	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6013	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6014	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6015	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	
R6018	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R6020	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6021	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6025	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6026	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6028	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6029	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6034	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R6036	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6039	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6041	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6042	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6043	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6050	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6051	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6054	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R6056	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6058	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6059	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6060	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K	
R6061	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6062	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R6063	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R6064	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R6071	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6072	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6074	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6078	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6079	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	

Ref. No.	Part No.	Part Name & Description	Remarks
R6080		MGF CHIP 1/10W 1K	Kemarks
R6081	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6082	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6083	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6085	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
	ERJ6GEYJ105V	MGF CHIP 1/10W 1M	
R6086	ERJ6GEYJ392V		
R6087	ERJ6GEYJ103V	MGF CHIP 1/10W 3.9K MGF CHIP 1/10W 10K	
R6089	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6093			
R6094	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K	
R6095		MGF CHIP 1/10W 0	
R6098		MGF CHIP 1/10W 0	
R6101	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6102	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6103	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R6104	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6105	ERDS2TJ151T	CARBON 1/4W 150	
R6106	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R6108	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R6109	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R6110	ERJ6GEYJ121V	MGF CHIP 1/10W 120	
R6111	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R6112	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6113	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R6114	ERJ6GEYJ391V	MGF CHIP 1/10W 390	
R6115	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6117	ERDS2TJ560T	CARBON 1/4W 56	
R6118	ERJ6GEYJ475V	MGF CHIP 1/10W 4.7M	
R6119	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R6120	ERJ6GEYJ152V	MGF CHIP 1/10W 1.5K	
R6121	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R6122	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R6125	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6129	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6130	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R6201	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6202	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6203	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6204	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6205	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R6206	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R6207	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R6208	ERJ6GEYJ1R2V	MGF CHIP 1/10W 1.2	
R6209	ERJ6GEYJ1R5V	MGF CHIP 1/10W 1.5	
R6210	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6211	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R6212	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6213	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6214	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R6215	ERDS2TJ561	CARBON 1/4W 560	
R6216	ERJ6GEYJ681V	MGF CHIP 1/10W 680	
R6301	ERJ6GEYG222V	MGF CHIP 1/10W 2.2K	
R6302		MGF CHIP 1/10W 3.3K	
R6303		MGF CHIP 1/10W 5.6K	

Ref. No.	Part No.	Part Name & Description	Remarks
R6306	ERJ6GEYG222V	MGF CHIP 1/10W 2.2K	
R6307	ERJ6GEYG332V	MGF CHIP 1/10W 3.3K	
R6308	ERJ6GEYG562V	MGF CHIP 1/10W 5.6K	
R6309	ERJ6GEYG433V	MGF CHIP 1/10W 43K	
R6311	ERJ6GEYG222V	MGF CHIP 1/10W 2.2K	
R6312	ERJ6GEYG513V	MGF CHIP 1/10W 51K	
R6313	ERJ6GEYG182V	MGF CHIP 1/10W 1.8K	
R6316	ERJ6GEYG113V	MGF CHIP 1/10W 11K	
R6317	ERJ6GEYG113V	MGF CHIP 1/10W 11K	
R6318	ERJ6GEYG113V	MGF CHIP 1/10W 11K	
R6401	ERJ6GEYJ105V	MGF CHIP 1/10W 1M	
R6407	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R6513	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6514	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6517	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6518	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R7001	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R7002	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R7003	ERJ6GEYJ101V	MGF CHIP 1/10W 100	

#### **CAPACITORS**

Ref. No.	Part No.	Part Name & Description	Remark
C401	ECA1HM2R2B	ELECTROLYTIC 50V 2.2UF	
C402	ECA1CM471B	ELECTROLYTIC 16V 470	
C408	ECA1HGE010KB	ELECTROLYTIC 50V 1UF	
C409	ECA1VM101B	ELECTROLYTIC 35V 100	
C413	ECQB1H104KF3	POLYESTER 50V 0.1UF	
C414	ECA1EM102E	ELECTROLYTIC 25V 1000	
C418	ECA1VM221B	ELECTROLYTIC 35V 220UF	
C459	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C510	ECKR2H681KB5	CERAMIC 500V 680PF	
C513	ECA1HM470B	ELECTROLYTIC 50V 47UF	
C524	ECKW3D271KBP	CERAMIC 2KV 270PF	Δ
C524	ECKC3D271KBP	CERAMIC 2KV 270PF	Δ
C531	ECEA1HKA3R3	ELECTROLYTIC 50V 3.3UF	
C533	ECA1EM101B	ELECTROLYTIC 25V 100UF	
C534	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C552	ECA1EM221B	ELECTROLYTIC 25V 220	
C553	ECKR2H471KB5	CERAMIC 500V 470PF	
C554	ECWH16622JVB	POLYESTER 1250V 0.062UF	Δ
C554	F0A3C622A002	POLYESTER 1250V 0.062	Δ
C554	LSCFN12622JB	POLYESTER 1.2KV 0.062UF	Δ
C556	ECWF2334JBB	POLYESTER 500V 0.33UF	Δ
C556	F0C2E334A049	POLYESTER 200V 0.33UF	Δ
C556	LSCFM2334JM	POLYESTER 500V 0.33UF	Δ
C558	ECA1EM221B	ELECTROLYTIC 25V 220	
C560	ECA2EM100B	ELECTROLYTIC 250V 10UF	<u> </u>
C561	ECA1HM2R2B	ELECTROLYTIC 50V 2.2UF	
C563	ECEA180V33WE	ELECTROLYTIC 180V 33UF	
C571	ECEA1EKA100I	ELECTROLYTIC 25V 10UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C572	ECA1CM221B	ELECTROLYTIC 16V 220UF	
C801	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C802	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C803	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C804	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C805	ECES2DU221EG	ELECTROLYTIC 200V 220UF	<u> </u>
C806	ECA2EM100E	ELECTROLYTIC 250V 10UF	
C808	F0CAF104A021	POLYESTER 125V 0.1UF	$\triangle$
C809	ECKDRS101MBY	CERAMIC 125V 100PF	A
C809	ECKATS101MB	CERAMIC 250V 100PF	A
C809	ECKETS101MB	CERAMIC 125V 100PF	<u> A</u>
C809	ECKMRS101MBY	CERAMIC 125V 100PF	Δ
C809	VCKSTJG101KW	CERAMIC 125V 100PF	Δ
C809	VCKSTLG101KW	CERAMIC 125V 100PF	Δ
C809	VCKSUJD101KW	CERAMIC 125V 100PF	Δ
C809	VCKSULD101KW	CERAMIC 125V 100PF	Δ
C811	ECKATS152ME	CERAMIC 250V 1500PF	Δ
C811	ECKETS152ME	CERAMIC 250V 1500PF	A
C811	VCKST4D152MX	CERAMIC 250V 1500PF	Δ
C811	VCKST5D152MX	CERAMIC 250V 1500PF	Δ
C811	VCKSU4D152MX	CERAMIC 250V 1500PF	Δ
C811	VCKSU5D152MX	CERAMIC 250V 1500PF	Δ
C1001	ECKATS332ME8	CERAMIC 250V 3300PF	Δ
C1001	ECKDNB332ME8	CERAMIC 125V 3300PF	Δ
C1001	ECKETS332ME8	CERAMIC 125V 3300PF	Δ
C1001	VCKST3G332MX	CERAMIC 250V 3300PF	Δ
C1001	VCKSU3D332MX	CERAMIC 125V 3300PF	Δ
C1002	ECKATS332ME8	CERAMIC 250V 3300PF	Δ
C1002	ECKDNB332ME8	CERAMIC 125V 3300PF	<u> </u>
C1002	ECKETS332ME8	CERAMIC 125V 3300PF	Δ
C1002	VCKST3G332MX	CERAMIC 250V 3300PF	Δ
C1002	VCKSU3D332MX	CERAMIC 125V 3300PF	Δ
C1005	ECEA2DU820YE	ELECTROLYTIC 200V 82UF	Δ
C1005	F2A2D8200001	ELECTROLYTIC 220V 82UF	Δ
C1005	F2A2D8200003	ELECTROLYTIC 200V 82UF	Δ
C1005	VCESR2D820XE	ELECTROLYTIC 200V 82UF	Δ
C1006	ECKN3A821KBP	CERAMIC 1KV 820PF	
C1007	F1A3A472A010	CERAMIC 1KV 4700UF	
C1008	ECQB1H223JF3	POLYESTER 50V 0.022UF	
C1009	ECQB1H223JF3	POLYESTER 50V 0.022UF	
C1010	ECQB1H104JF3	POLYESTER 50V 0.1UF	
C1011	ECQB1H103JF3	POLYESTER 50V 0.01UF	
C1012	ECKNTS102ME	CERAMIC 125V 1000PF	Δ

Ref. No.	Part No.	Part Name & Description	Remarks
C1012	F1BAF1020006	CERAMIC 50V 1000PF	A
C1012		CERAMIC 125V 1000PF	<u>A</u>
C4042	EC IOVEALIANA I	C CUID FOV 400DE	+
C1013	ECJ2VC1H101J	C CHIP 50V 100PF	
C1014	ECJ2VC1H101J	C CHIP 50V 100PF	
C1015	ECEA1PEE331	ELECTROLYTIC 18V 330UF	
C1017	ECJ2VB1E104K	C CHIP 25V 0.1UF	
C1018	EEUFF1E471B	ELECTROLYTIC 25V 471UF	
C1019	ECA0JM102B	ELECTROLYTIC 6.3V 1000UF	
C1020	ECA1HM470I	ELECTROLYTIC 50V 47UF ELECTROLYTIC 25V 330UF	
C1021	ECKDBS101MBV		Α.
C1025	ECKDRSTUTMET	CERAMIC 125V 100PF	<u> </u>
C1025	ECKATS101MB	CERAMIC 250V 100PF	Δ
C1025	ECKETS101MB	CERAMIC 125V 100PF	$\triangle$
C1025	ECKMRS101MBY	CERAMIC 125V 100PF	Δ
C1025	VCKSTJG101KW	CERAMIC 125V 100PF	A
C1025	VCKSTLG101KW	CERAMIC 125V 100PF	<u> </u>
C1025	VCKSUJD101KW	CERAMIC 125V 100PF	<u> </u>
C1025		CERAMIC 125V 100PF	+
			Δ
C1204	ECEA1EKA100I	ELECTROLYTIC 25V 10UF	
C1206	ECEA1EKA100I	ELECTROLYTIC 25V 10UF	
C1209	ECEA1CKA220	ELECTROLYTIC 16V 22UF	
C1211	ECEA0JEE101	ELECTROLYTIC 6.3V 100UF	
C1212	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C1215	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C1216	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C1217	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C3002	ECJ2VC1H020C	C CHIP 50V 2P	
C3003	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3004	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3006	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3007	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C3008	ECJ2VC1H181J	C CHIP 50V 180PF	
C3009		ELECTROLYTIC 25V 4.7UF	
C3010	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3013	ECJ2VF1C224Z	C CHIP 16V 0.22UF	
C3015	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C3016		ELECTROLYTIC 16V 10UF	
C3019		ELECTROLYTIC 50V 2.2UF	
C3020		ELECTROLYTIC 16V 22UF	
C3021		ELECTROLYTIC 50V 2.2UF	
C3022	ECJ2VF1C224Z	C CHIP 16V 0.22UF	
C3023	ECJ2VC1H680J	C CHIP 50V 68PF	
C3024	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3025	ECJ2VB1E104K	C CHIP 25V 0.1UF	
C3026	ECJ2VB1H822K	C CHIP 50V 8200PF	
C3027	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3030	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3031	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3032	ECJ2VF1C474Z	C CHIP 16V 0.47UF	
C3034	ECJ2VC1H181J	C CHIP 50V 180PF	
C3035	ECJ2VC1H330J	C CHIP 50V 33PF	

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Ref. No.	Part No.	Part Name & Description	Remarks
C3036	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3038	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C3043	ECJ2VB1H392K	C CHIP 50V 3900PF	
C3044	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3045	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C3046	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C3047	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C3048	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3050	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C3055	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3056	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3057	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3058	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3082	ECJ2VB1H332K	C CHIP 50V 3300PF	
C3231	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C3232	ECJ2VB1H102K	C CHIP 50V 1000PF	
C3234	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C3235	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3236	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3237	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3372	ECJ2VC1H220J	C CHIP 50V 22PF	
C3373	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3377	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C3378	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C3503	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3506	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C4001	ECJ2VF1C224Z	C CHIP 16V 0.22UF	
C4002	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4003	ECJ2VB1H272K	C CHIP 50V 2700PF	
C4004	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C4005	ECEA0JKA220	ELECTROLYTIC 6.3V 22UF	
C4006	ECJ2VB1H102K	C CHIP 50V 1000PF	
C4007	ECEA0JKA220	ELECTROLYTIC 6.3V 22UF	
C4008	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C4009	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4010	ECJ2VB1E333K	C CHIP 25V 0.033UF	
C4011	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C4012	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4013	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C4013	ECEA1HKA010	ELECTROLYTIC 5.5V 47 6F	
C4014	ECJ2VB1H223K	C CHIP 50V 0.022UF	
C4018	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4020	ECQB1562JF	POLYESTER 100V 5600PF	+
C4102		C CHIP 50V 0.01UF	
C4103	ECJ2VB1H103K ECJ2VB1H103K		_
		C CHIP 50V 0.01UF	
C4105	ECEA1CKA220	ELECTROLYTIC 16V 22UF	_
C4502	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4504	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C4506	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C4508	ECA1CM221B	ELECTROLYTIC 16V 220UF	
C4509	ECJ2VB1E473K	C CHIP 25V 0.047UF	
C4521	ECA1EM102B	ELECTROLYTIC 25V 1000UF	
C4524	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5301	ECEA1CKA100	ELECTROLYTIC 16V 10UF	

Ref. No.         Part Name & Description         Rem.           C5302         ECEA1EKA4R7         ELECTROLYTIC 25V 4.7UF           C5303         ECEA1HKAR47         ELECTROLYTIC 50V 0.47UF           C5305         ECEA1HKAR33I         ELECTROLYTIC 50V 0.33UF           C5306         ECEA1CKA100         ELECTROLYTIC 16V 10UF           C5307         ECEA1CKA100         ELECTROLYTIC 16V 10UF           C5308         ECEA1CKA100         ELECTROLYTIC 16V 10UF           C5401         VCUSTBC224KB         C CHIP 16V 0.22UF           C5402         ECJ2VB1H222K         C CHIP 50V 0.0022UF           C5403         ECEA1HKA2R2         ELECTROLYTIC 50V 2.2UF           C5501         ECJ2VB1E183K         C CHIP 50V 0.018UF           C5502         ECJ2VB1H681K         C CHIP 50V 0.80PF           C5503         ECEA1CKA470         ELECTROLYTIC 16V 47UF           C5504         ECA1CKA470         ELECTROLYTIC 50V 10UF           C5505         ECEA1CKA400         ELECTROLYTIC 50V 1UF           C5510         ECEA1HKA010         ELECTROLYTIC 50V 1UF           C5511         ECJ2VB1E333K         C CHIP 25V 0.033UF           C5516         ECJ2VB1E33K         C CHIP 25V 0.033UF           C5601         ECJ2VB1E104K         C	
C5305 ECEA1HKAR33I ELECTROLYTIC 50V 0.33UF C5306 ECEA1CKA100 ELECTROLYTIC 16V 10UF C5307 ECEA1CKA100 ELECTROLYTIC 16V 10UF C5308 ECEA1CKA100 ELECTROLYTIC 16V 10UF C5401 VCUSTBC224KB C CHIP 16V 0.22UF C5402 ECJ2VB1H222K C CHIP 50V 0.0022UF C5403 ECEA1HKA2R2 ELECTROLYTIC 50V 2.2UF C5501 ECJ2VB1E183K C CHIP 25V 0.018UF C5502 ECJ2VB1H681K C CHIP 50V 0.00UF C5505 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5506 ECJ2VF1H103Z C CHIP 50V 0.01UF C5507 ECEA1CKA470 ELECTROLYTIC 16V 10UF C5508 ECUV1H221JSN C CHIP 50V 20PF C5510 ECEA1HKA010 ELECTROLYTIC 50V 1UF C5511 ECJ2VB1E333K C CHIP 25V 0.033UF C5516 ECJ2VB1E333K C CHIP 25V 0.033UF C5601 ECJ2VF1H103Z C CHIP 50V 0.01UF C5602 ECJ2VB1E104K C CHIP 25V 0.1UF C5603 ECJ2VB1E104K C CHIP 25V 0.1UF C5604 ECEA1HKA010 ELECTROLYTIC 50V 1UF C5605 ECJ2VB1E153K C CHIP 25V 0.015UF C5902 ECEA1CKA470 ELECTROLYTIC 50V 1UF C5903 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5904 ECJ2VB1C104K C CHIP 25V 0.015UF C5905 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5906 ECJ2VB1C104K C CHIP 16V 0.1UF C5907 ECJ2VB1C104K C CHIP 50V 0.01UF C5906 ECJ2VF1H103Z C CHIP 50V 0.01UF C5932 ECJ2VF1H103Z C CHIP 50V 0.01UF C6001 ECEA0JKA31B ELECTROLYTIC 6.3V 330UF C6002 ECJ2VC1H1200 C CHIP 50V 0.01UF	
C5306 ECEA1CKA100 ELECTROLYTIC 16V 10UF C5307 ECEA1CKA100 ELECTROLYTIC 16V 10UF C5308 ECEA1CKA100 ELECTROLYTIC 16V 10UF C5401 VCUSTBC224KB C CHIP 16V 0.22UF C5402 ECJ2VB1H222K C CHIP 50V 0.0022UF C5403 ECEA1HKA2R2 ELECTROLYTIC 50V 2.2UF C5501 ECJ2VB1E183K C CHIP 25V 0.018UF C5502 ECJ2VB1H681K C CHIP 50V 680PF C5505 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5506 ECJ2VF1H103Z C CHIP 50V 2.2UP C5507 ECEA1CKA100 ELECTROLYTIC 16V 10UF C5508 ECUV1H221JSN C CHIP 50V 2.2UP C5510 ECEA1HKA010 ELECTROLYTIC 16V 10UF C5511 ECJ2VB1E333K C CHIP 25V 0.033UF C5516 ECJ2VB1E333K C CHIP 25V 0.033UF C5601 ECJ2VF1H103Z C CHIP 50V 0.01UF C5602 ECJ2VB1E104K C CHIP 25V 0.01UF C5603 ECJ2VC1H150J C CHIP 50V 15PF C5604 ECEA1HKA010 ELECTROLYTIC 50V 1UF C5605 ECJ2VB1E153K C CHIP 25V 0.015UF C5906 ECJ2VB1E153K C CHIP 25V 0.015UF C5902 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5903 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5904 ECJ2VB1C104K C CHIP 25V 0.015UF C5905 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5906 ECJ2VB1C104K C CHIP 16V 0.1UF C5907 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5908 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5909 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5901 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5902 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5903 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5904 ECJ2VB1C104K C CHIP 50V 0.01UF C5905 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C5906 ECJ2VF1H103Z C CHIP 50V 0.01UF C5907 ECJ2VF1H103Z C CHIP 50V 0.01UF C5908 ECJ2VF1H103Z C CHIP 50V 0.01UF C5909 ECJ2VF1H103Z C CHIP 50V 0.01UF C5900 ECJ2VC1H220J C CHIP 50V 22PF C6000 ECJ2VC1H200J C CHIP 50V 22PF C6000 ECJ2VF1H103Z C CHIP 50V 0.01UF	-
C5307 ECEA1CKA100 ELECTROLYTIC 16V 10UF C5308 ECEA1CKA100 ELECTROLYTIC 16V 10UF C5401 VCUSTBC224KB C CHIP 16V 0.22UF C5402 ECJ2VB1H222K C CHIP 50V 0.0022UF C5403 ECEA1HKA2R2 ELECTROLYTIC 50V 2.2UF C5501 ECJ2VB1E183K C CHIP 25V 0.018UF C5502 ECJ2VB1H681K C CHIP 50V 680PF C5505 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5506 ECJ2VF1H103Z C CHIP 50V 0.01UF C5507 ECEA1CKA100 ELECTROLYTIC 16V 10UF C5508 ECUV1H221JSN C CHIP 50V 220PF C5510 ECEA1HKA010 ELECTROLYTIC 50V 1UF C5511 ECJ2VB1E333K C CHIP 25V 0.033UF C5516 ECJ2VB1E333K C CHIP 25V 0.033UF C5601 ECJ2VF1H103Z C CHIP 50V 0.01UF C5602 ECJ2VB1E104K C CHIP 25V 0.1UF C5603 ECJ2VC1H150J C CHIP 50V 15PF C5604 ECEA1HKA010 ELECTROLYTIC 50V 1UF C5605 ECJ2VB1E153K C CHIP 25V 0.015UF C5902 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5903 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5904 ECJ2VB1C104K C CHIP 25V 0.015UF C5905 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5906 ECJ2VB1C104K C CHIP 16V 0.1UF C5907 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5908 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5909 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5901 ECJ2VF1H103Z C CHIP 50V 0.01UF C5902 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5903 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5904 ECJ2VB1C104K C CHIP 16V 0.1UF C5905 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C5906 ECJ2VF1H103Z C CHIP 50V 0.01UF C5907 ECJ2VF1H103Z C CHIP 50V 0.01UF C5908 ECJ2VF1H103Z C CHIP 50V 0.01UF C5909 ECJ2VC1H220J C CHIP 50V 0.01UF C60001 ECEA0JKA331B ELECTROLYTIC 6.3V 330UF C60002 ECJ2VC1H180J C CHIP 50V 18PF C60005 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C5308 ECEA1CKA100 ELECTROLYTIC 16V 10UF C5401 VCUSTBC224KB C CHIP 16V 0.22UF C5402 ECJ2VB1H222K C CHIP 50V 0.0022UF C5403 ECEA1HKA2R2 ELECTROLYTIC 50V 2.2UF C5501 ECJ2VB1E183K C CHIP 25V 0.018UF C5502 ECJ2VB1H681K C CHIP 50V 680PF C5505 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5506 ECJ2VF1H103Z C CHIP 50V 0.01UF C5507 ECEA1CKA100 ELECTROLYTIC 16V 10UF C5508 ECUV1H221JSN C CHIP 50V 220PF C5510 ECEA1HKA010 ELECTROLYTIC 50V 1UF C5511 ECJ2VB1E333K C CHIP 25V 0.033UF C5516 ECJ2VF1H103Z C CHIP 25V 0.033UF C5601 ECJ2VB1E333K C CHIP 25V 0.03UF C5602 ECJ2VB1E104K C CHIP 25V 0.1UF C5603 ECJ2VC1H150J C CHIP 50V 1UF C5604 ECEA1HKA010 ELECTROLYTIC 50V 1UF C5605 ECJ2VB1E153K C CHIP 25V 0.015UF C5902 ECEA1CKA470 ELECTROLYTIC 50V 1UF C5903 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5904 ECJ2VB1C104K C CHIP 25V 0.015UF C5905 ECEA0JKA101 ELECTROLYTIC 16V 47UF C5906 ECJ2VB1H103Z C CHIP 50V 0.01UF C5907 ECJ2VF1H103Z C CHIP 50V 0.01UF C5908 ECJ2VF1H103Z C CHIP 50V 0.01UF C5909 ECEA0JKA331B ELECTROLYTIC 6.3V 100UF C5907 ECJ2VF1H103Z C CHIP 50V 0.01UF C5902 ECEA0JKA331B ELECTROLYTIC 6.3V 330UF C6001 ECEA0JKA331B ELECTROLYTIC 6.3V 330UF C6002 ECJ2VC1H120J C CHIP 50V 22PF C6003 ECJ2VF1H103Z C CHIP 50V 0.01UF	
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C5602 ECJ2VB1E104K C CHIP 25V 0.1UF C5603 ECJ2VC1H150J C CHIP 50V 15PF C5604 ECEA1HKA010 ELECTROLYTIC 50V 1UF C5605 ECJ2VB1E153K C CHIP 25V 0.015UF C5902 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5903 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5904 ECJ2VB1C104K C CHIP 16V 0.1UF C5905 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C5906 ECJ2VF1H103Z C CHIP 50V 0.01UF C5907 ECJ2VF1H104Z C CHIP 50V 0.1UF C5932 ECJ2VF1H103Z C CHIP 50V 0.01UF C6001 ECEA0JKA331B ELECTROLYTIC 6.3V 330UF C6002 ECJ2VC1H200J C CHIP 50V 18PF C6003 ECJ2VC1H180J C CHIP 50V 0.01UF	$\neg$
C5603 ECJ2VC1H150J C CHIP 50V 15PF C5604 ECEA1HKA010 ELECTROLYTIC 50V 1UF C5605 ECJ2VB1E153K C CHIP 25V 0.015UF C5902 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5903 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5904 ECJ2VB1C104K C CHIP 16V 0.1UF C5905 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C5906 ECJ2VF1H103Z C CHIP 50V 0.01UF C5907 ECJ2VF1H104Z C CHIP 50V 0.1UF C5932 ECJ2VF1H103Z C CHIP 50V 0.01UF C6001 ECEA0JKA331B ELECTROLYTIC 6.3V 330UF C6002 ECJ2VC1H200J C CHIP 50V 22PF C6003 ECJ2VC1H180J C CHIP 50V 1.01UF	
C5604 ECEA1HKA010 ELECTROLYTIC 50V 1UF C5605 ECJ2VB1E153K C CHIP 25V 0.015UF C5902 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5903 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5904 ECJ2VB1C104K C CHIP 16V 0.1UF C5905 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C5906 ECJ2VF1H103Z C CHIP 50V 0.01UF C5907 ECJ2VF1H104Z C CHIP 50V 0.1UF C5932 ECJ2VF1H103Z C CHIP 50V 0.01UF C6001 ECEA0JKA331B ELECTROLYTIC 6.3V 330UF C6002 ECJ2VC1H220J C CHIP 50V 22PF C6003 ECJ2VC1H180J C CHIP 50V 18PF C6005 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C5605 ECJ2VB1E153K C CHIP 25V 0.015UF C5902 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5903 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5904 ECJ2VB1C104K C CHIP 16V 0.1UF C5905 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C5906 ECJ2VF1H103Z C CHIP 50V 0.01UF C5907 ECJ2VF1H104Z C CHIP 50V 0.1UF C5932 ECJ2VF1H103Z C CHIP 50V 0.01UF C6001 ECEA0JKA331B ELECTROLYTIC 6.3V 330UF C6002 ECJ2VC1H220J C CHIP 50V 22PF C6003 ECJ2VC1H180J C CHIP 50V 18PF C6005 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C5902 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5903 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5904 ECJ2VB1C104K C CHIP 16V 0.1UF C5905 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C5906 ECJ2VF1H103Z C CHIP 50V 0.01UF C5907 ECJ2VF1H104Z C CHIP 50V 0.1UF C5932 ECJ2VF1H103Z C CHIP 50V 0.01UF C6001 ECEA0JKA331B ELECTROLYTIC 6.3V 330UF C6002 ECJ2VC1H220J C CHIP 50V 22PF C6003 ECJ2VC1H180J C CHIP 50V 18PF C6005 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C5903 ECEA1CKA470 ELECTROLYTIC 16V 47UF C5904 ECJ2VB1C104K C CHIP 16V 0.1UF C5905 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C5906 ECJ2VF1H103Z C CHIP 50V 0.01UF C5907 ECJ2VF1H104Z C CHIP 50V 0.1UF C5932 ECJ2VF1H103Z C CHIP 50V 0.01UF C6001 ECEA0JKA331B ELECTROLYTIC 6.3V 330UF C6002 ECJ2VC1H220J C CHIP 50V 22PF C6003 ECJ2VC1H180J C CHIP 50V 18PF C6005 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C5904 ECJ2VB1C104K C CHIP 16V 0.1UF C5905 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C5906 ECJ2VF1H103Z C CHIP 50V 0.01UF C5907 ECJ2VF1H104Z C CHIP 50V 0.1UF C5932 ECJ2VF1H103Z C CHIP 50V 0.01UF C6001 ECEA0JKA331B ELECTROLYTIC 6.3V 330UF C6002 ECJ2VC1H220J C CHIP 50V 22PF C6003 ECJ2VC1H180J C CHIP 50V 18PF C6005 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C5905 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C5906 ECJ2VF1H103Z C CHIP 50V 0.01UF C5907 ECJ2VF1H104Z C CHIP 50V 0.1UF C5932 ECJ2VF1H103Z C CHIP 50V 0.01UF C6001 ECEA0JKA331B ELECTROLYTIC 6.3V 330UF C6002 ECJ2VC1H220J C CHIP 50V 22PF C6003 ECJ2VC1H180J C CHIP 50V 18PF C6005 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C5906 ECJ2VF1H103Z C CHIP 50V 0.01UF C5907 ECJ2VF1H104Z C CHIP 50V 0.1UF C5932 ECJ2VF1H103Z C CHIP 50V 0.01UF C6001 ECEA0JKA331B ELECTROLYTIC 6.3V 330UF C6002 ECJ2VC1H220J C CHIP 50V 22PF C6003 ECJ2VC1H180J C CHIP 50V 18PF C6005 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C5907 ECJ2VF1H104Z C CHIP 50V 0.1UF C5932 ECJ2VF1H103Z C CHIP 50V 0.01UF C6001 ECEA0JKA331B ELECTROLYTIC 6.3V 330UF C6002 ECJ2VC1H220J C CHIP 50V 22PF C6003 ECJ2VC1H180J C CHIP 50V 18PF C6005 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C5932 ECJ2VF1H103Z C CHIP 50V 0.01UF C6001 ECEA0JKA331B ELECTROLYTIC 6.3V 330UF C6002 ECJ2VC1H220J C CHIP 50V 22PF C6003 ECJ2VC1H180J C CHIP 50V 18PF C6005 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C6001 ECEA0JKA331B ELECTROLYTIC 6.3V 330UF C6002 ECJ2VC1H220J C CHIP 50V 22PF C6003 ECJ2VC1H180J C CHIP 50V 18PF C6005 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C6002 ECJ2VC1H220J C CHIP 50V 22PF C6003 ECJ2VC1H180J C CHIP 50V 18PF C6005 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C6003 ECJ2VC1H180J C CHIP 50V 18PF C6005 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C6005 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C6006 ECJ2VB1E104K C CHIP 25V 0.1UF	
C6007 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF	
C6008 ECEA0JKA470 ELECTROLYTIC 6.3V 47UF	
C6010 ECJ2VF1E104Z C CHIP 25V 0.1UF	
C6015 ECEA0JKA470 ELECTROLYTIC 6.3V 47UF	
C6016 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C6019 ECJ2VC1H330J C CHIP 50V 33PF	
C6020 ECEA1HKS010I ELECTROLYTIC 50V 1UF	
C6021 ECEA0JKA220 ELECTROLYTIC 6.3V 22UF	
C6022 ECEA1CKA100 ELECTROLYTIC 16V 10UF	
C6023 ECJ2VB1H272K C CHIP 50V 2700PF	
C6024 ECJ2VB1H123K C CHIP 50V 0.012UF	
C6025 ECJ2VB1E104K C CHIP 25V 0.1UF	
C6026 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF	
C6027 ECEA1CKA100 ELECTROLYTIC 16V 10UF	
C6030 ECJ2VF1H104Z C CHIP 50V 0.1UF	
C6032 ECJ2VC1H101J C CHIP 50V 100PF	
C6033 ECJ2VC1H101J C CHIP 50V 100PF	
C6037 ECJ2VB1H102K C CHIP 50V 1000PF	
C6101 ECJ2VF1H104Z C CHIP 50V 0.1UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C6102	ECJ2VF1H104Z	C CHIP 50V 0.1UF	
C6201	ECJ2VB1E563K	C CHIP 25V 0.056UF	
C6202	ECJ2VB1E563K	C CHIP 25V 0.056UF	
C6203	ECJ2VB1H562K	C CHIP 50V 0.0056UF	
C6204	ECJ2VB1H562K	C CHIP 50V 0.0056UF	
C6205	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C6206	ECJ2VB1E104K	C CHIP 25V 0.1UF	
C6207	ECUV1C224KBM	C CHIP 16V 0.22UF	
C6208	ECJ2VB1H223K	C CHIP 50V 0.022UF	
C6209	ECJ2VB1H223K	C CHIP 50V 0.022UF	
C6210	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C6211	ECJ2VB1H102K	C CHIP 50V 1000PF	
C6212	ECJ2VB1H102K	C CHIP 50V 1000PF	
C6213	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C6214	ECJ2VB1H182K	C CHIP 50V 0.0018UF	
C6215	ECJ2VF1H104Z	C CHIP 50V 0.1UF	
C6216	ECEA0JKA221	ELECTROLYTIC 6.3V 220UF	
C6217	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C6218	ECJ2VB1C104K	C CHIP 16V 0.1UF	
C6219	ECJ2VB1C104K	C CHIP 16V 0.1UF	
C6220	ECJ2VB1C104K	C CHIP 16V 0.1UF	
C6221	ECA1EM221B	ELECTROLYTIC 25V 220	
C6222	ECEA0JKA221	ELECTROLYTIC 6.3V 220UF	
C6228	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C6302	ECJ2VF1H104Z	C CHIP 50V 0.1UF	
C6401	ECJ2VF1H104Z	C CHIP 50V 0.1UF	
C6402	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6403	ECJ2VB1H102K	C CHIP 50V 1000PF	
C6404	ECJ2VB1H333K	C CHIP 50V 0.033UF	
C6405	ECJ2VB1H102K	C CHIP 50V 1000PF	
C6406	ECJ2VC1H561J	C CHIP 50V 560PF	
C6407	ECJ2VB1C104K	C CHIP 16V 0.1UF	
C6408	ECJ1VC1H820J	C CHIP 50V 82PF	
C6409	ECJ2VC1H101J	C CHIP 50V 100PF	
C7001	ECEA0JKA331	ELECTROLYTIC 6.3V 330UF	
C7010	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C7013	ECEA1HKA010	ELECTROLYTIC 50V 1UF	

# COILS

L503 ELESN101KA COIL 100UH  L552 JOJKA0000015 COIL  L553 VLQSW07D220M COIL 22UH  L803 GOB822G00003 LINE FILTER 1.8A 8.2MH  L803 ELF21V018A LINE FILTER 1.8A 8.2MH  L803 LLN63055A LINE FILTER 1.8A 8.2MH  L1001 GOB183E00002 LINE FILTER 0.5A 18MH  L1001 ELF15N005A LINE FILTER 0.5A 18MH  L1001 JOHBLD000001 LINE FILTER 0.5A 18MH  L1003 J1ZZA000001 RESONANT SNUBBER  L1005 VLQSAB7D100K COIL 10UH  L1006 GOA220G00018 COIL 22UH  L3001 GOC390KA0045 COIL 39UH  L3002 ELESN101KA COIL 100UH  L3005 GOC330KA0045 COIL 33UH  L3301 ELESN470KA COIL 47UH  L3231 ELESN21KA COIL 22UH  L3301 ELESN101KA COIL 100UH  L3507 ELESN101KA COIL 100UH  L4001 ELESN101KA COIL 100UH  L4004 GOC220KA0045 COIL 22UH  L4101 ELESN101KA COIL 100UH  L5901 ELESN101KA COIL 100UH  L5902 ELESN101KA COIL 2UH  L6403 JOJBC0000022 CHIP BEAD INDUCTOR  L6404 JOJBC0000022 CHIP BEAD INDUCTOR  L6405 JOJBC0000022 CHIP BEAD INDUCTOR  L6406 JOJBC0000022 CHIP BEAD INDUCTOR  L7001 VLQSAB7D100K COIL 10UH  L7002 ELEXT101KE04 COIL 10UH	Ref. No.	Part No.	Part Name & Description	Remarks
L553 VLQSW07D220M COIL 22UH  L803 G0B822G00003 LINE FILTER 1.8A 8.2MH	L503	ELESN101KA	COIL 100UH	
L803 G0B822G00003 LINE FILTER 1.8A 8.2MH	L552	J0JKA0000015	COIL	
L803 ELF21V018A LINE FILTER 1.8A 8.2MH	L553	VLQSW07D220M	COIL 22UH	
L803 LLN63055A LINE FILTER 1.8A 8.2MH	L803	G0B822G00003	LINE FILTER 1.8A 8.2MH	<u>A</u>
L1001 G0B183E00002 LINE FILTER 0.5A 18MH	L803	ELF21V018A	LINE FILTER 1.8A 8.2MH	Δ
L1001 ELF15N005A LINE FILTER 0.5A 18MH  L1001 J0HBLD000001 LINE FILTER 0.5A 18MH  L1003 J1ZZA0000001 RESONANT SNUBBER  L1005 VLQSAB7D100K COIL 10UH  L1006 G0A220G00018 COIL 22UH  L3001 G0C390KA0045 COIL 39UH  L3002 ELESN101KA COIL 100UH  L3005 G0C330KA0045 COIL 33UH  L3010 ELESN470KA COIL 47UH  L3231 ELESN221KA COIL 220UH  L3301 ELESN101KA COIL 100UH  L3507 ELESN101KA COIL 100UH  L4001 ELELN153KA COIL 15MH  L4002 ELESN101KA COIL 100UH  L4004 G0C220KA0045 COIL 22UH  L4101 ELESN471KA COIL 100UH  L5901 ELESN101KA COIL 470UH  L5901 ELESN101KA COIL 470UH  L5902 ELESN101KA COIL 47UH  L6401 ELEXT101KE04 COIL 100UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6404 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L7001 VLQSAB7D100K COIL 10UH	L803	LLN63055A	LINE FILTER 1.8A 8.2MH	Δ
L1001 J0HBLD000001 LINE FILTER 0.5A 18MH  L1003 J1ZZA0000001 RESONANT SNUBBER  L1005 VLQSAB7D100K COIL 10UH  L1006 G0A220G00018 COIL 22UH  L3001 G0C390KA0045 COIL 39UH  L3002 ELESN101KA COIL 100UH  L3005 G0C330KA0045 COIL 33UH  L3010 ELESN470KA COIL 47UH  L3231 ELESN221KA COIL 22UH  L3507 ELESN101KA COIL 100UH  L4001 ELELN153KA COIL 100UH  L4002 ELESN101KA COIL 100UH  L4004 G0C220KA0045 COIL 22UH  L4101 ELESN471KA COIL 100UH  L5901 ELESN101KA COIL 100UH  L5902 ELESN101KA COIL 47UH  L5902 ELESN470KA COIL 47UH  L6401 ELEXT101KE04 COIL 47UH  L6401 G0C47JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR	L1001	G0B183E00002	LINE FILTER 0.5A 18MH	Δ
L1003 J1ZZA0000001 RESONANT SNUBBER  L1005 VLQSAB7D100K COIL 10UH  L1006 G0A220G00018 COIL 22UH  L3001 G0C390KA0045 COIL 39UH  L3002 ELESN101KA COIL 100UH  L3005 G0C330KA0045 COIL 33UH  L3010 ELESN470KA COIL 47UH  L3231 ELESN221KA COIL 220UH  L3301 ELESN101KA COIL 100UH  L3507 ELESN101KA COIL 100UH  L4001 ELELN153KA COIL 15MH  L4002 ELESN101KA COIL 10UH  L4004 G0C220KA0045 COIL 22UH  L4101 ELESN471KA COIL 10UH  L5901 ELESN471KA COIL 47UH  L5901 ELESN101KA COIL 10UH  L5902 ELESN470KA COIL 47UH  L6401 ELEXT101KE04 COIL 10UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR	L1001	ELF15N005A	LINE FILTER 0.5A 18MH	Δ
L1005 VLQSAB7D100K COIL 10UH  L1006 G0A220G00018 COIL 22UH  L3001 G0C390KA0045 COIL 39UH  L3002 ELESN101KA COIL 100UH  L3005 G0C330KA0045 COIL 33UH  L3010 ELESN470KA COIL 47UH  L3231 ELESN221KA COIL 220UH  L3301 ELESN101KA COIL 100UH  L3507 ELESN101KA COIL 100UH  L4001 ELELN153KA COIL 15MH  L4002 ELESN101KA COIL 100UH  L4004 G0C220KA0045 COIL 22UH  L4101 ELESN471KA COIL 22UH  L4101 ELESN471KA COIL 470UH  L5901 ELESN101KA COIL 47UH  L5902 ELESN101KA COIL 47UH  L6401 ELEXT101KE04 COIL 100UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR	L1001	J0HBLD000001	LINE FILTER 0.5A 18MH	Δ
L1006 G0A220G00018 COIL 22UH  L3001 G0C390KA0045 COIL 39UH  L3002 ELESN101KA COIL 100UH  L3005 G0C330KA0045 COIL 33UH  L3010 ELESN470KA COIL 47UH  L3231 ELESN221KA COIL 220UH  L3301 ELESN101KA COIL 100UH  L3507 ELESN101KA COIL 100UH  L4001 ELELN153KA COIL 15MH  L4002 ELESN101KA COIL 100UH  L4004 G0C220KA0045 COIL 22UH  L4101 ELESN471KA COIL 470UH  L5901 ELESN101KA COIL 47UH  L5902 ELESN470KA COIL 47UH  L6401 ELEXT101KE04 COIL 100UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR	L1003	J1ZZA000001	RESONANT SNUBBER	
L3001 G0C390KA0045 COIL 39UH  L3002 ELESN101KA COIL 100UH  L3005 G0C330KA0045 COIL 33UH  L3010 ELESN470KA COIL 47UH  L3231 ELESN221KA COIL 220UH  L3301 ELESN101KA COIL 100UH  L3507 ELESN101KA COIL 100UH  L4001 ELELN153KA COIL 15MH  L4002 ELESN101KA COIL 100UH  L4004 G0C220KA0045 COIL 22UH  L4101 ELESN471KA COIL 47UH  L5901 ELESN101KA COIL 47UH  L5902 ELESN470KA COIL 47UH  L6401 ELEXT101KE04 COIL 100UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR	L1005	VLQSAB7D100K	COIL 10UH	
L3002 ELESN101KA COIL 100UH  L3005 G0C330KA0045 COIL 33UH  L3010 ELESN470KA COIL 47UH  L3231 ELESN221KA COIL 220UH  L3301 ELESN101KA COIL 100UH  L3507 ELESN101KA COIL 100UH  L4001 ELELN153KA COIL 15MH  L4002 ELESN101KA COIL 100UH  L4004 G0C220KA0045 COIL 22UH  L4101 ELESN471KA COIL 47UH  L5901 ELESN101KA COIL 47UH  L5902 ELESN470KA COIL 47UH  L6401 ELEXT101KE04 COIL 100UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6404 J0JBC0000022 CHIP BEAD INDUCTOR  L6405 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR	L1006	G0A220G00018	COIL 22UH	
L3005 G0C330KA0045 COIL 33UH  L3010 ELESN470KA COIL 47UH  L3231 ELESN221KA COIL 220UH  L3301 ELESN101KA COIL 100UH  L3507 ELESN101KA COIL 100UH  L4001 ELELN153KA COIL 15MH  L4002 ELESN101KA COIL 100UH  L4004 G0C220KA0045 COIL 22UH  L4101 ELESN471KA COIL 47UH  L5901 ELESN101KA COIL 100UH  L5902 ELESN470KA COIL 47UH  L6401 ELEXT101KE04 COIL 100UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6404 J0JBC0000022 CHIP BEAD INDUCTOR  L6405 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR	L3001	G0C390KA0045	COIL 39UH	
L3010 ELESN470KA COIL 47UH  L3231 ELESN221KA COIL 220UH  L3301 ELESN101KA COIL 100UH  L3507 ELESN101KA COIL 100UH  L4001 ELELN153KA COIL 15MH  L4002 ELESN101KA COIL 100UH  L4004 G0C220KA0045 COIL 22UH  L4101 ELESN471KA COIL 470UH  L5901 ELESN101KA COIL 100UH  L5902 ELESN101KA COIL 100UH  L6401 ELEXT101KE04 COIL 47UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6404 J0JBC0000022 CHIP BEAD INDUCTOR  L6405 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR	L3002	ELESN101KA	COIL 100UH	
L3231 ELESN221KA COIL 220UH  L3301 ELESN101KA COIL 100UH  L3507 ELESN101KA COIL 100UH  L4001 ELELN153KA COIL 15MH  L4002 ELESN101KA COIL 100UH  L4004 G0C220KA0045 COIL 22UH  L4101 ELESN471KA COIL 470UH  L5901 ELESN101KA COIL 100UH  L5902 ELESN470KA COIL 47UH  L6401 ELEXT101KE04 COIL 100UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6404 J0JBC0000022 CHIP BEAD INDUCTOR  L6405 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR	L3005	G0C330KA0045	COIL 33UH	
L3301 ELESN101KA COIL 100UH  L3507 ELESN101KA COIL 100UH  L4001 ELELN153KA COIL 15MH  L4002 ELESN101KA COIL 100UH  L4004 G0C220KA0045 COIL 22UH  L4101 ELESN471KA COIL 470UH  L5901 ELESN101KA COIL 100UH  L5902 ELESN470KA COIL 47UH  L6401 ELEXT101KE04 COIL 100UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6404 J0JBC0000022 CHIP BEAD INDUCTOR  L6405 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR	L3010	ELESN470KA	COIL 47UH	
L3507 ELESN101KA COIL 100UH  L4001 ELEN153KA COIL 15MH  L4002 ELESN101KA COIL 100UH  L4004 G0C220KA0045 COIL 22UH  L4101 ELESN471KA COIL 470UH  L5901 ELESN101KA COIL 47UH  L5902 ELESN470KA COIL 47UH  L6401 ELEXT101KE04 COIL 100UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6404 J0JBC0000022 CHIP BEAD INDUCTOR  L6405 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR	L3231	ELESN221KA	COIL 220UH	
L4001 ELELN153KA COIL 15MH  L4002 ELESN101KA COIL 100UH  L4004 G0C220KA0045 COIL 22UH  L4101 ELESN471KA COIL 470UH  L5901 ELESN101KA COIL 100UH  L5902 ELESN470KA COIL 47UH  L6401 ELEXT101KE04 COIL 100UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6404 J0JBC0000022 CHIP BEAD INDUCTOR  L6405 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6407 L6408 COIL 10UH	L3301	ELESN101KA	COIL 100UH	
L4002 ELESN101KA COIL 100UH  L4004 G0C220KA0045 COIL 22UH  L4101 ELESN471KA COIL 470UH  L5901 ELESN101KA COIL 100UH  L5902 ELESN470KA COIL 47UH  L6401 ELEXT101KE04 COIL 100UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6404 J0JBC0000022 CHIP BEAD INDUCTOR  L6405 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6407 L6408 J0JBC0000022 CHIP BEAD INDUCTOR  L6409 L6409 CHIP BEAD INDUCTOR  L6409 CHIP BEAD INDUCTOR  L6409 CHIP BEAD INDUCTOR  L6409 COIL 10UH	L3507	ELESN101KA	COIL 100UH	
L4004 G0C220KA0045 COIL 22UH  L4101 ELESN471KA COIL 470UH  L5901 ELESN101KA COIL 100UH  L5902 ELESN470KA COIL 47UH  L6401 ELEXT101KE04 COIL 100UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6404 J0JBC0000022 CHIP BEAD INDUCTOR  L6405 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6407 L6408 J0JBC0000022 CHIP BEAD INDUCTOR  L6409 L6409 CHIP BEAD INDUCTOR  L6409 CHIP BEAD INDUCTOR  L6409 CHIP BEAD INDUCTOR  L6409 CHIP BEAD INDUCTOR  L6409 COIL 10UH	L4001	ELELN153KA	COIL 15MH	
L4101 ELESN471KA COIL 470UH  L5901 ELESN101KA COIL 100UH  L5902 ELESN470KA COIL 47UH  L6401 ELEXT101KE04 COIL 100UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6404 J0JBC0000022 CHIP BEAD INDUCTOR  L6405 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L6407 L6408 J0JBC0000022 CHIP BEAD INDUCTOR  L6409 CHIP BEAD INDUCTOR  L6409 CHIP BEAD INDUCTOR  L6409 COIL 10UH	L4002	ELESN101KA	COIL 100UH	
L5901 ELESN101KA COIL 100UH  L5902 ELESN470KA COIL 47UH  L6401 ELEXT101KE04 COIL 100UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6404 J0JBC0000022 CHIP BEAD INDUCTOR  L6405 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L7001 VLQSAB7D100K COIL 10UH	L4004	G0C220KA0045	COIL 22UH	
L5902 ELESN470KA COIL 47UH  L6401 ELEXT101KE04 COIL 100UH  L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR  L6403 J0JBC0000022 CHIP BEAD INDUCTOR  L6404 J0JBC0000022 CHIP BEAD INDUCTOR  L6405 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L7001 VLQSAB7D100K COIL 10UH	L4101	ELESN471KA	COIL 470UH	
L6401         ELEXT101KE04         COIL 100UH           L6402         G0C4R7JA0019         CHIP BEAD INDUCTOR           L6403         J0JBC0000022         CHIP BEAD INDUCTOR           L6404         J0JBC0000022         CHIP BEAD INDUCTOR           L6405         J0JBC0000022         CHIP BEAD INDUCTOR           L6406         J0JBC0000022         CHIP BEAD INDUCTOR           L7001         VLQSAB7D100K         COIL 10UH	L5901	ELESN101KA	COIL 100UH	
L6402 G0C4R7JA0019 CHIP BEAD INDUCTOR L6403 J0JBC0000022 CHIP BEAD INDUCTOR L6404 J0JBC0000022 CHIP BEAD INDUCTOR L6405 J0JBC0000022 CHIP BEAD INDUCTOR L6406 J0JBC0000022 CHIP BEAD INDUCTOR L7001 VLQSAB7D100K COIL 10UH	L5902	ELESN470KA	COIL 47UH	
L6403         J0JBC0000022         CHIP BEAD INDUCTOR           L6404         J0JBC0000022         CHIP BEAD INDUCTOR           L6405         J0JBC0000022         CHIP BEAD INDUCTOR           L6406         J0JBC0000022         CHIP BEAD INDUCTOR           L7001         VLQSAB7D100K         COIL 10UH	L6401	ELEXT101KE04	COIL 100UH	
L6404 J0JBC0000022 CHIP BEAD INDUCTOR  L6405 J0JBC0000022 CHIP BEAD INDUCTOR  L6406 J0JBC0000022 CHIP BEAD INDUCTOR  L7001 VLQSAB7D100K COIL 10UH	L6402	G0C4R7JA0019	CHIP BEAD INDUCTOR	
L6405         J0JBC0000022         CHIP BEAD INDUCTOR           L6406         J0JBC0000022         CHIP BEAD INDUCTOR           L7001         VLQSAB7D100K         COIL 10UH	L6403	J0JBC0000022	CHIP BEAD INDUCTOR	
L6406         J0JBC0000022         CHIP BEAD INDUCTOR           L7001         VLQSAB7D100K         COIL 10UH	L6404	J0JBC0000022	CHIP BEAD INDUCTOR	
L7001 VLQSAB7D100K COIL 10UH	L6405	J0JBC0000022	CHIP BEAD INDUCTOR	
	L6406	J0JBC0000022	CHIP BEAD INDUCTOR	
L7002 ELEXT101KE04 COIL 100UH	L7001	VLQSAB7D100K	COIL 10UH	
	L7002	ELEXT101KE04	COIL 100UH	

# **CRYSTAL OSCILLATOR**

Ref. No.	Part No.	Part Name & Description	Remarks
X3001	H0D357400071	CRYSTAL OSCILLATOR	
X5501	H2A503300012	CRYSTAL OSCILLATOR	
X5601	H0B357400003	CRYSTAL OSCILLATOR	
X6001	H0D120500016	CRYSTAL OSCILLATOR	

#### **PIN HEADERS**

Ref. No.	Part No.	Part Name & Description	Remarks
P552	LSJWE4S250LL	CONNECTOR CABLE W/PLUG	
P801	VEKS5809	CONNECTOR CABLE W/OUT PLUG	
P803	LSJP0814	CONNECTOR 2P	
P3001	K1MN06A00060	CONNECTOR 6P	
P4001	K1MZ02A00003	FE CONNECTOR 2P	
P4002	K1MN06A00030	CONNECTOR 6P	
P4591	K1KA02A00229	CONNECTOR 2P	
P5301	LSJWD4S380LL	CONNECTOR CABLE W/PLUG	
P6001	K1KA05A00268	CONNECTOR 5P	
P6201	K1KA08A00290	CONNECTOR 8P	
P6202	K1MN07A00017	CONNECTOR 7P	
P6203	K1KA02A00375	CONNECTOR 2P	

# **SWITCHES**

Ref. No.	Part No.	Part Name & Description	Remarks
SW6001	K0C111A00006	SWITCH	
SW6002	K0ZZ00000598	SWITCH	
SW6303	EVQ21405R	SWITCH PUSH	
SW6304	EVQ21405R	SWITCH PUSH	
SW6306	EVQ21405R	SWITCH PUSH	
SW6307	EVQ21405R	SWITCH PUSH	
SW6308	EVQ21405R	SWITCH PUSH	
SW6309	EVQ21405R	SWITCH PUSH	
SW6310	EVQ21405R	SWITCH PUSH	
SW6312	EVQ21405R	SWITCH PUSH	
SW6315	EVQ21405R	SWITCH PUSH	
SW6316	EVQ21405R	SWITCH PUSH	
SW6317	EVQ21405R	SWITCH PUSH	

#### **FUSE & PROTECTOR**

Ref. No.	Part No.	Part Name & Description	Remarks
F801	K5D402AQ0002	FUSE 125V 4A	Δ
F801	K5D402AB0002	FUSE 125V 4A	Δ
F801	K5D402ADA002	FUSE 125V 4A	A
F801	K5D402ADA006	FUSE 125V 4A	A
F1001	K5D162AQ0004	FUSE 125V 1.6A	A
F1001	K5D162ADA001	FUSE 125V 1.6A	A
F1001	K5D162ADA008	FUSE 125V 1.6A	A
PR4521	LSSF009AR37E	IC PROTECTOR 1.5A	A

# **RELAY**

Ref. No.	Part No.	Part Name & Description	Remarks
RL801	LSSY0004	RELAY	Δ
RL801	K6B1AGA00034	RELAY	Δ
RL801	K6B1AGA00042	RELAY	Δ
RL801	TSEH0013	RELAY	Δ
RL801	TSEH1860-1	RELAY	Δ

#### **TRANSFORMER**

Ref. No.	Part No.	Part Name & Description	Remarks
T501	ETH09K6AZ	TRANSFORMER	
T551	G4G3G0000001	TRANSFORMER	Δ
T1001	LSTP0126	TRANSFORMER	Δ
T4101	G2A342C00003	TRANSFORMER	

# **JACK**

Ref. No.	Part No.	Part Name & Description	Remarks
JK4591	K2HC103B0145	FRONT AUDIO/VIDEO JACK SOCKET	
JK4701	K2HA104B0007	EARPHONE JACK SOCKET	

#### **MISCELLANEOUS**

Ref. No.	Part No.	Part Name & Description	Remarks
483	XYN3+F10S	SCREW W/WASHER,STEEL	
484	XTW3+10J	TAPPING SCREW,STEEL	
488	XYN3+F6S	SCREW W/WASHER,STEEL	
711	PNA4611M00HC	INFRARED RECEIVER UNIT	
719	VMFS0136	CUSHION	
743	ENG36A11GF	TUNER,UHF/VHF NR	
751	LML69001A	ANODE LEAD CLAMPER	
758	TUC77616	HEAT SINK	
766	TUC76677-1	HEAT SINK	
771	EYF52BC	FUSE HOLDER	

# 12.3.2. HEAD AMP C.B.A.

# **INTEGRATED CIRCUITS**

Ref. No.	Part No.	Part Name & Description	Remarks
IC3501	AN3371SB	IC, LINEAR	

#### **RESISTORS**

Ref. No.	Part No.	Part Name & Description	Remarks
R3507	ERJ6GEYJ331V	MGF CHIP 1/10W 330	

#### **CAPACITORS**

Ref. No.	Part No.	Part Name & Description	Remarks
C3504	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3505	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C3506	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3508	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3511	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3512	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3513	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3528	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3529	ECJ2VF1H103Z	C CHIP 50V 0.01UF	

# COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L3501	G0C101KA0045	COIL 100UH	

#### **PIN HEADERS**

Ref. No.	Part No.	Part Name & Description	Remarks
P3501	K1MN06B00149	CONNECTOR 6P	
W3509	ERJ8GEY0R00V	MGF CHIP 1/8W 0	

# 12.3.3. CRT C.B.A.

#### **TRANSISTORS**

Ref. No.	Part No.	Part Name & Description	Remarks
Q351	2SC14730Q	TRANSISTOR SI NPN	
Q351	B1AACN000014	TRANSISTOR SI NPN	
Q351	B1BAAN000029	TRANSISTOR SI NPN	
Q351	2SC1473A-Q	TRANSISTOR SI NPN	
Q352	2SC14730Q	TRANSISTOR SI NPN	
Q352	B1AACN000014	TRANSISTOR SI NPN	
Q352	B1BAAN000029	TRANSISTOR SI NPN	
Q352	2SC1473A-Q	TRANSISTOR SI NPN	
Q353	2SC14730Q	TRANSISTOR SI NPN	
Q353	B1AACN000014	TRANSISTOR SI NPN	
Q353	B1BAAN000029	TRANSISTOR SI NPN	
Q353	2SC1473A-Q	TRANSISTOR SI NPN	

#### **DIODES**

Ref. No.	Part No.	Part Name & Description	Remarks
D351	MAZ41500MF	DIODE ZENER 15V	
D351	B0BA01400041	DIODE ZENER VOLTAGE REGULATION D	

#### **RESISTORS**

Ref. No.	Part No.	Part Name & Description	Remarks
R351	ERG1ANJ153H	METAL OXIDE 1W 15K	
R351	ERG1ANJP153H	METAL OXIDE 1W 15K	
R351	ERG2SJ153H	METAL OXIDE 2W 15K	
R351	KRG1ANJP153H	METAL OXIDE 1W 15K	
R352	ERG1ANJ153H	METAL OXIDE 1W 15K	
R352	ERG1ANJP153H	METAL OXIDE 1W 15K	
R352	ERG2SJ153H	METAL OXIDE 2W 15K	
R352	KRG1ANJP153H	METAL OXIDE 1W 15K	
R353	ERG1ANJ153H	METAL OXIDE 1W 15K	
R353	ERG1ANJP153H	METAL OXIDE 1W 15K	
R353	ERG2SJ153H	METAL OXIDE 2W 15K	
R353	KRG1ANJP153H	METAL OXIDE 1W 15K	
R354	ERD25TJ272T	CARBON 1/4W 2.7K	
R356	ERD25TJ272T	CARBON 1/4W 2.7K	
R357	ERDS2TJ392	CARBON 1/4W 3.9K	
R358	ERDS2TJ392	CARBON 1/4W 3.9K	
R359	ERDS2TJ392	CARBON 1/4W 3.9K	
R360	ERDS2TJ391T	CARBON 1/4W 390	
R361	ERDS2TJ391T	CARBON 1/4W 390	
R362	ERDS2TJ391T	CARBON 1/4W 390	
R363	ERDS2TJ181T	CARBON 1/4W 180	
R364	ERDS2TJ181T	CARBON 1/4W 180	
R365	ERDS2TJ181T	CARBON 1/4W 180	
R366	ERD25TJ272T	CARBON 1/4W 2.7K	

## **CAPACITORS**

Ref. No.	Part No.	Part Name & Description	Remarks
C351	F1D1H391A012	CERAMIC 50V 390PF	
C352	F1D1H391A012	CERAMIC 50V 390PF	
C353	F1D1H471A012	CERAMIC 50V 470PF	
C354	F1B3D1020008	CERAMIC 2KV 1000PF	

## **PIN HEADERS**

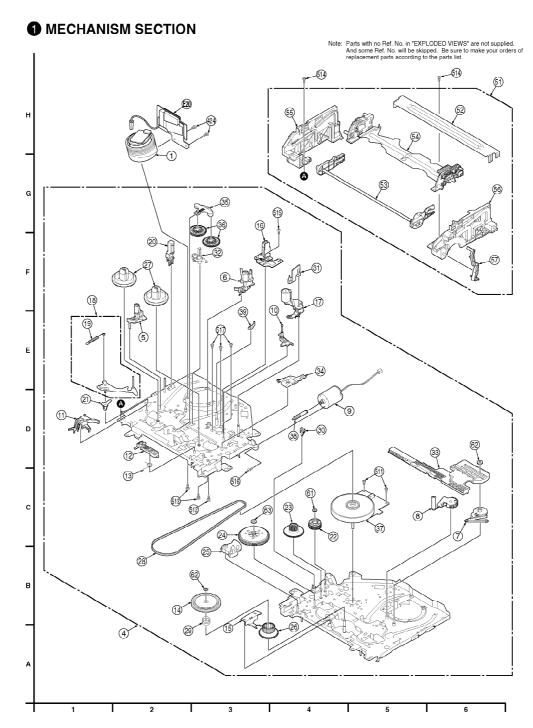
Ref. No.	Part No.	Part Name & Description	Remarks
P355	K3B09BA00006	CRT SOCKET	Δ

## **MISCELLANEOUS**

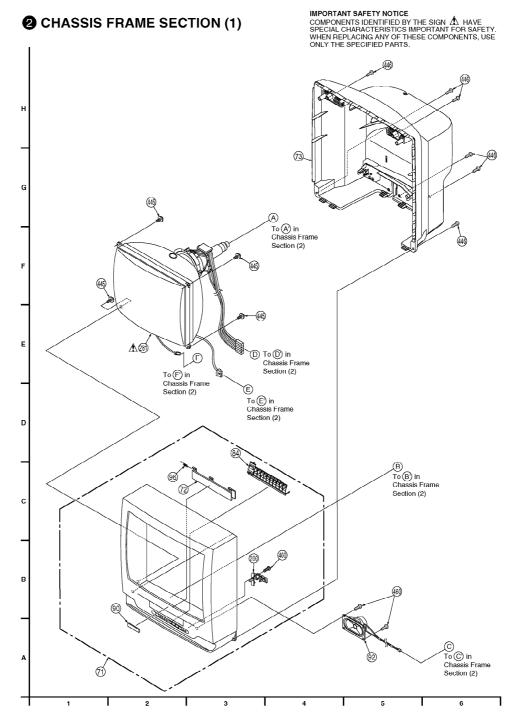
Ref. No.	Part No.	Part Name & Description	Remarks
153	TMM7443-1	CLAMPER	

## 13. EXPLODED VIEWS (Model: PV-C2024-K)

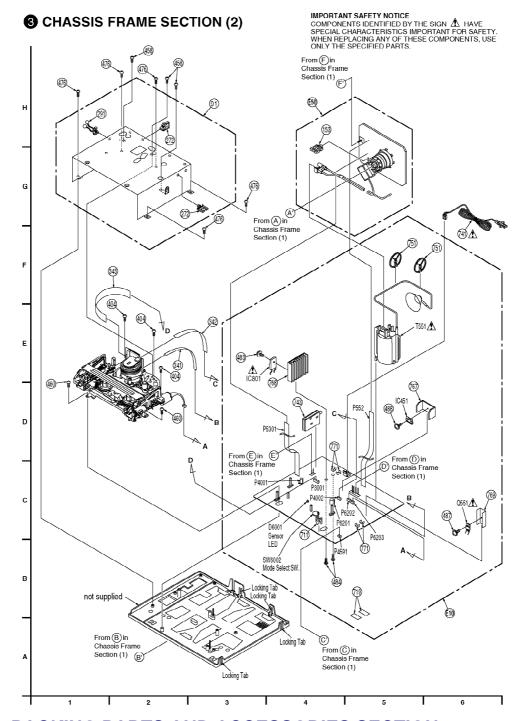
## 13.1. MECHANISM SECTION



13.2. CHASSIS FRAME SECTION (1)

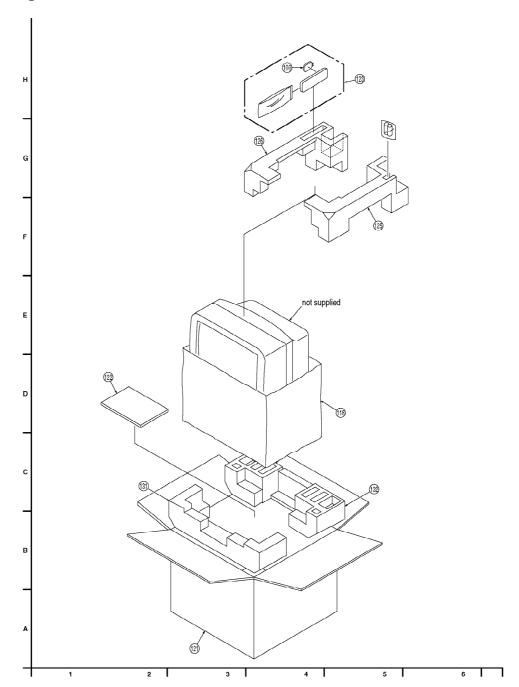


13.3. CHASSIS FRAME SECTION (2)



13.4. PACKING PARTS AND ACCESSORIES SECTION

## **4** PACKING PARTS AND ACCESSORIES SECTION



# 14. REPLACEMENT PARTS LISTS (Model: PV-C2024-K)

BEFORE REPLACING PARTS, READ THE FOLLOWING:

## 14.1. REPLACEMENT NOTES

## 14.1.1. General Notes

## 1. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list.

## 2. IMPORTANT SAFETY NOTICE

Components identified by the sign  $\triangle$  have special characteristics important for safety. When replacing any of these components, use only the specified parts.

## 3. SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

- 4. Parts with no Ref. No. in "EXPLODED VIEWS" are not supplied. And some Ref. No. will be skipped. Be sure to make your orders of replacement parts according to the parts list.
- 5. Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.
- 6. Definition of Parts supplier:
  - A. Parts with mark "MKE" in the Remarks column are supplied from MKE.
  - B. Parts without mark in the Remarks column are supplied from MKA.
- 7. Item numbers with capital letter E (Example: E10, E20,...) in the Ref. No. column are shown in the exploded views.
- 8. Parts whose Ref. Nos. are the same are interchangeable as replacement parts. Any of these parts may be ordered and used as a replacement part.

## 14.1.2. Mechanical Replacement Notes

- 1. Section No. of parts shown in Exploded Views are indicated in the Remarks column.
- 2. The Mechanical Chassis Sub Ass'y (Ref. No. 4) consists of all the mechanical parts except the Cylinder Unit (Ref. No. 1), and the Cassette Up Ass'y (Ref. No. 51).

After replacing the Mechanical Chassis Sub Ass'y, be sure to perform "TAPE INTERCHANGEABILITY ADJUSTMENT" in Service Manual for R4-Mechanism - Chassis - for - PV-Model (Order No. MKE0401000C1).

3. The Infrared Remote Control Unit (Ref. No. 123) replacement part is available as a complete assembly unit only. Do not try to disassemble the Infrared Remote Control Unit. However, the battery cover is available separately as a replacement part.

## 14.1.3. Electrical Replacement Notes

1. Unless otherwise specified; All resistors are in  $\Omega$ , K = 1,000  $\Omega$ , M = 1,000 k  $\Omega$ .

2. Abbreviation

## RTL:

**Retention Time Limited** 

This indicates that the retention time is limited for this item. After the discontinuation of this item in production, it will no longer be available.

NR:

Non Repairable Board Ass'y

MGF CHIP:

**Metal Glaze Film Chip** 

C CHIP:

**Ceramic Chip** 

**COMPLX CMP:** 

**Complex Component** 

W FLMPRF:

**Wirewound Flameproof** 

C.B.A.:

**Circuit Board Assembly** 

P.C.B.:

**Printed Circuit Board** 

**E.S.D.**:

**Electrostatically Sensitive Devices** 

- 3. When replacing 0  $\Omega$  resistor, a wire can be substituted for it.
- 4. Since the UHF/VHF TUNER/TV DEMODULATOR UNIT (Ref. No. 743) has already been pre-adjusted at the factory, do not try to adjust the UHF/VHF TUNER/TV DEMODULATOR UNIT. The UHF/VHF TUNER/TV DEMODULATORUNIT replacement part is available as a complete assembly unit only.
- 5. EEP ROM IC (IC6004) replacement note:
  There are 2 types of EEPROM IC (IC6004) used on the Main C.B.A.
  (DIP TYPE and SOP TYPE). However, these are same reliability,
  please refer to "TV/VCR MAIN C.B.A." in CIRCUIT BOARD
  LAYOUT.

**COMPARISON CHART OF MODELS & MARKS** 

MODEL	MARK
	Α
	В
	С
	D
	Е
PV-C2024-K	F

## 14.2. MECHANICAL REPLACEMENT PARTS LIST

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
	Α
	В
	С
	D
	E
PV-C2024-K	F

**Definition of Parts supplier:** 

- 1. Parts with mark "MKE" in the Remarks column are supplied from MKE.
- 2. Parts without mark in the Remarks column are supplied from MKA.

**MECHANICAL REPLACEMENT PARTS** 

Ref. No.	Part No.	Part Name & Description	Remarks
<u>1</u>	LSEG0119	CYLINDER UNIT	1
4	LSXY0543	MECHANICAL CHASSIS SUB ASS'Y	1 RTL
<u>5</u>	VXA7105	SUPPLY SHAFT HOLDER UNIT	1
<u>6</u>	VXA7106	TAKE UP SHAFT HOLDER UNIT	1
<u>7</u>	VXL3107	SUPPLY LOADING ARM UNIT	1
<u>8</u>	VXL3108	TAKE UP LOADING ARM UNIT	1
<u>9</u>	VEM0796	LOADING MOTOR UNIT	1
<u>10</u>	VXL3110	P5 ARM UNIT	1
<u>11</u>	VXL3112	SUPPLY BRAKE ARM UNIT	1
<u>12</u>	VXL3121	T BRAKE ARM UNIT	1
<u>13</u>	VMB3548	TAKE UP BRAKE SPRING	1
14	VXP2133	CENTER CLUTH UNIT	1
<u>15</u>	VXL3124	CHANGING LEVER UNIT	1
<u>16</u>	LSEH0012	AC HEAD UNIT	1
<u>17</u>	VXL3109	PINCH ARM UNIT	1
18	VXL3111	TENSION ARM UNIT	1
19	VMB3547	TENSION SPRING	1
20	L1AG00000011	FE HEAD	1
<u> </u>	VDB1431	TENSION ARM BOSH	1
 22	VXP2168	TORQUE CLUTCH UNIT	1
 23	VDG1510	INTERMEDIATE GEAR	1
24	VDG1511	MAIN CAM GEAR	1
<u> </u>	VXA7311	SECTOR GEAR UNIT	1
<u> </u>	VDG1514	CHANGE GEAR	1
27	VDR0372	REEL TABLE	1
28	VDV0391	CAPSTAN BELT	1
29	VMB3550	CHANGING GEAR SPRING	1
<u>-0</u> 30	VMD4987	WORM BEARING	1
31	VMD4252	OPENER PIECE	1
32	VMD4252	LED PRISM	1
33	VML3624	MAIN LEVER	1
34	VML3626	PINCH CHARGE ARM	1
35	VML3632	IDLER ARM	1
	VML3632 VDG1512	IDLER GEAR	1
3 <u>6</u>	<del>                                     </del>		
<u>37</u>	VEM0800	CAPSTAN ASS'Y	1
38	VDG1637	WORM GEAR	1
<u>39</u>	VMX3377	P4 CAP	1
<u>51</u>	LSXY0541	CASSETTE UP ASS'Y	1
<u>52</u>	VMA0L25	TOP PLATE	1
<u>53</u>	VXL3160	MAIN SHAFT UNIT	1
<u>54</u> 	VXA7110	CASSETTE HOLDER UNIT	1
<u>55</u>	VMD4255	SIDE PLATE L	1
<u>56</u>	VMD4985	SIDE PLATE R	1
<u>57</u>	LSML0367	OPENER LEVER 2	1
<u>51</u>	VMX2208	CUT WASHER,STEEL	1
<u>52</u>	VMX3196	CUT WASHER,STEEL	1
<u>33</u>	VMX2699	CUT WASHER	1
<u>71</u>	LSYY0049	FRONT CABINET ASS'Y	2
<u>72</u>	LSKF0546	CASSETTE DOOR-LID	2
<u>73</u>	LSGV0062	BACK COVER (E)	2
73	LSYY0141	BACK COVER UNIT (F)	2
34	LSGU0592	OPERATION BUTTON	2
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## **SERVICE FIXTURES AND TOOLS**

Ref. No.	Part No.	Part Name & Description	Remarks
	VFMS0003H6	VHS ALIGNMENT TAPE	MKE
	VFKS0081	GREASE	MKE
	VFK0329	POST ADJUSTMENT DRIVER	MKE
	VFK27	HEAD CLEANING STICK	MKE
	VFK0330	H-POSITION ADJUSTMENT DRIVER	MKE

## 14.3. ELECTRICAL REPLACEMENT PARTS LIST

**Definition of Parts supplier:** 

## 1. All parts are supplied from MKA.

## PRINTED CIRCUIT BOARD ASSEMBLY

Ref. No.	Part No.	Part Name & Description	Remarks
E10	LSEP2127A	TV/VCR MAIN C.B.A.	E.S.D. RTL
E20	LSEP2128A	HEAD AMP C.B.A.	RTL
E50	LRP63022B	CRT C.B.A.	RTL

## 14.3.1. TV / VCR MAIN C.B.A.

## INTEGRATED CIRCUITS

Ref. No.	Part No.	Part Name & Description	Remarks
IC451	C1AA00000024	IC, LINEAR	
IC501	CNC1S101R1KT	IC, LINEAR	Δ
IC501	CNC1S101S1KT	IC, LINEAR	Δ
IC501	ON3131-S.KT	IC, LINEAR	Δ
IC501	PS2501-1-X	IC, LINEAR	<b>A</b>
IC502	CNC1S101R2KT	IC, LINEAR	Δ
IC801	C5HABZZ00051	IC, LINEAR	Δ
IC1001	CNC1S101R1KT	IC, LINEAR	Δ
IC1001	CNC1S101S1KT	IC, LINEAR	Δ
IC1002	C0DAEMZ00005	IC, LINEAR	
IC1002	B1AZKD000001	IC, LINEAR	
IC1002	C0DAEMZ00001	IC, LINEAR	
IC3001	AN3479FBP-A	IC, LINEAR	
IC3201	MN3885S	IC, CCD 1H DELAY	E.S.D.
IC3371	C1AB00001487	IC, LINEAR	
IC4501	C1AA00000652	IC, LINEAR	
IC5301	AN15167A-VT	IC, LINEAR	
IC6001	LSSK0052	IC, 16BIT MICROCONTROLLER	E.S.D.
IC6002	B3NAA0000049	PHOTO INTERRUPUTER	
IC6003	B3NAA0000049	PHOTO INTERRUPUTER	
IC6004	LSSK0044	IC, 1K EEP ROM	E.S.D.
IC6005	C0EBJ0000080	IC, CMOS STANDARD LOGIC	E.S.D.
IC6005	C0EBJ0000099	IC, CMOS STADNARD LOGIC	E.S.D.
IC6005	RN5VS47CA-TR	IC, CMOS STANDARD LOGIC	E.S.D.
IC6201	C1AB00001767	IC, LINEAR	

## **TRANSISTORS**

IRAN	J.01010		
Ref. No.	Part No.	Part Name & Description	Remarks
Q431	2SA733-TQ	TRANSISTOR SI PNP	
Q431	2SA1175	TRANSISTOR SI PNP	
Q431	2SA1175-TH	TRANSISTOR SI PNP	
Q501	B1AACN000013	TRANSISTOR SI NPN	
Q531	2SA733-TQ	TRANSISTOR SI PNP	
Q531	2SA1175	TRANSISTOR SI PNP	
Q531	2SA1175-TH	TRANSISTOR SI PNP	
Q532	2SC3311AHA	TRANSISTOR SI PNP CHIP	
Q551	B1BAET000006	TRANSISTOR SI NPN	⚠
Q571	2SD0601A0L	TRANSISTOR SI NPN CHIP	
Q571	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q581	B1ACBM000001	TRANSISTOR SI NPN	
Q581	B1ACBN000001	TRANSISTOR SI NPN	
Q581	2SA17670QA	TRANSISTOR SI PNP CHIP	
Q581	2SB12210QA	TRANSISTOR SI PNP CHIP	
Q801	2SC945A-TKA	TRANSISTOR SI NPN	
Q801	2SC1684-Q	TRANSISTOR SI NPN	
Q801	2SC1684-S	TRANSISTOR SI NPN	
Q801	2SC16840RA	TRANSISTOR SI NPN	
Q801	2SC2785-TE	TRANSISTOR SI NPN	
Q801	2SC2785-TF	TRANSISTOR SI NPN	
Q801	2SC2785-TH	TRANSISTOR SI NPN	
Q801	2SC2785-TJ	TRANSISTOR SI NPN	
Q801	2SC2785-TK	TRANSISTOR SI NPN	
Q801	2SC3311AQA	TRANSISTOR SI NPN	
Q801	2SC3311ARA	TRANSISTOR SI NPN	
Q801	2SC3311ASA	TRANSISTOR SI NPN	
Q801	2SC945A-TPA	TRANSISTOR SI NPN	
Q801	2SC945A-TQA	TRANSISTOR SI NPN	
Q1001	B1DEEQ000001	TRANSISTOR	Δ
Q1001	B1DEEQ000006	TRANSISTOR FET	Δ
Q1002	2SC3311AHA	TRANSISTOR SI PNP CHIP	
Q1003	2SC3311AHA	TRANSISTOR SI PNP CHIP	
Q1201	UNR211100L	TRANSISTOR COMPLEX COMPONENT SI NPN CHIP	
Q1201	B1GDCFJJ0002	TRANSISTOR COMPLEX COMPONENT SI NPN CHIP	
Q1202	2SD0601AHL	TRANSISTOR SI NPN CHIP	
Q1202	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q1205	B1BACC000010	TRANSISTOR SI PNP CHIP	
Q1205	2SD1581-T	TRANSISTOR SI NPN	
Q1206	2SD235800A	TRANSISTOR SI NPN CHIP	
Q1206	B1AAQB000002	TRANSISTOR SI NPN CHIP	
Q1207	2SD0601AHL	TRANSISTOR SI NPN CHIP	
Q1207	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q1208	B1BACC000010	TRANSISTOR SI PNP CHIP	
Q1208	2SD1581-T	TRANSISTOR SI PNP CHIP	
Q1209	2SD0601AHL	TRANSISTOR SI NPN CHIP	
Q1209	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q3001	2SB1218A0L	TRANSISTOR SI PNP CHIP	
Q3001	B1ADCF000063	TRANSISTOR SI PNP CHIP	
	2SD1819A0L	TRANSISTOR SI NPN CHIP	

Ref. No.	Part No.	Part Name & Description	Remarks
Q3002	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q3301	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q3301	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q4001	2SB1218A0L	TRANSISTOR SI PNP CHIP	
Q4001	B1ADCF000063	TRANSISTOR SI PNP CHIP	
Q4002	2SD1819AHL	TRANSISTOR SI NPN CHIP	
Q4003	2SD1819AHL	TRANSISTOR SI NPN CHIP	
Q4101	2SD0601ARL	TRANSISTOR SI NPN CHIP	
Q5301	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q5301	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q5901	2SD225900A	TRANSISTOR SI NPN	
Q6001	2SB0709A0L	TRANSISTOR SI PNP CHIP	
Q6001	B1ADCF000001	TRANSISTOR SI PNP CHIP	
Q6002	2SD0601A0L	TRANSISTOR SI NPN CHIP	
Q6002	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q6003	2SD0601A0L	TRANSISTOR SI NPN CHIP	
Q6003	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q6005	2SB0709A0L	TRANSISTOR SI PNP CHIP	
Q6005	B1ADCF000001	TRANSISTOR SI PNP CHIP	
Q6006	2SD0601A0L	TRANSISTOR SI NPN CHIP	
Q6006	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q6009	VEKS9440	PHOTO SENSOR ASS'Y	
Q6010	VEKS9440	PHOTO SENSOR ASS'Y	
Q6216	2SD0601AHL	TRANSISTOR SI NPN CHIP	
Q6216	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q6217	2SD225900A	TRANSISTOR SI NPN	

## **DIODES**

Ref. No.	Part No.	Part Name & Description	Remarks
D401	B0EAKL000049	DIODE SI	
D401	B0EAKL000044	DIODE SI	
D401	B0EAKL000045	DIODE SI	
D502	MA2C165001VT	DIODE SI	
D502	B0AACK000004	DIODE SI	
D502	1SS119	DIODE SI	
D503	B0HAGP000011	DIODE SI	
D503	B0HAJP000012	DIODE SI	
D504	MAZ40470MF	DIODE ZENER 4.7V	
D504	MAZ40470HF	DIODE ZENER 4.7V	
D504	RD4.7ESAB	DIODE ZENER 4.7V	
D504	RD4.7ESAB2	DIODE ZENER 4.7V	
D504	04AZ4.7ZTPA7	DIODE ZENER 4.7V	
D507	MA2C165001VT	DIODE SI	
D507	B0AACK000004	DIODE SI	
D507	1SS119	DIODE SI	
D553	B0HAGP000011	DIODE SI	
D553	B0HAJP000012	DIODE SI	
D554	B0AAEL000001	DIODE SI	
D554	MA167	DIODE SI	
D556	MA2C18500E	DIODE SI	
D558	B0HAGP000011	DIODE SI	
D558	B0HAJP000012	DIODE SI	
D560	B0HAMP000066	DIODE SI	

Ref. No.	Part No.	Part Name & Description	Remarks
D571	MAZ40470MF	DIODE ZENER 4.7V	Kemarks
D571	B0BA4R600003	DIODE ZENER 4.7V	
D571	RD4.7ESAB2	DIODE ZENER 4.7V	
D572	MAZ4110NHF	DIODE ZENER 11V	
D573	MA2C165001VT	DIODE SI	
D573	B0AACK000004	DIODE SI	
D573	1SS119	DIODE SI	
D574	MA2C165001VT	DIODE SI	
D574	B0AACK000004	DIODE SI	
D574	1SS119	DIODE SI	
D591	D4DDF5R00002	POSISTOR	Δ
D591	VRPSKF5JM050	POSISTOR	Δ
D801	B0AAKT000010	DIODE SI	Δ
D801	B0EAKT000027	DIODE SI	Δ
D801	B0EAKT000030	DIODE SI	Δ
D801	EM02BMV	DIODE SI	Δ
D802	B0AAKT000010	DIODE SI	Δ
D802	B0EAKT000027	DIODE SI	Δ
D802	B0EAKT000030	DIODE SI	Δ
D802	EM02BMV	DIODE SI	A
D803	B0AAKT000010	DIODE SI	Δ
D803	B0EAKT000027	DIODE SI	Δ
D803	B0EAKT000030	DIODE SI	Δ
D803	EM02BMV	DIODE SI	Δ
D804	B0AAKT000010	DIODE SI	Δ
D804	B0EAKT000027	DIODE SI	A
D804	B0EAKT000030	DIODE SI	A
D804	EM02BMV	DIODE SI	Δ
D805	MA2C16700E	DIODE SI	
D805	B0AAEL000001	DIODE SI	
D881	ERZV07Z361CS	VARISTOR	Δ
D1001	DB105G	DIODE SI	Δ
D1001	B0EBKR000003	DIODE SI	Δ
D1001	B0EBKR000020	DIODE SI	Δ
D1002	B0HAHP000014	DIODE SI	
D1002	B0HAJP000007	DIODE SI	
D1002	B0HAMP000061	DIODE SI	
D1002	B0HAMP000069	DIODE SI	
D1004	MAZ40360MF	DIODE ZENER 3.6V	
D1005	MA2C165001VT	DIODE SI	
D1005	B0AACK000004	DIODE SI	
D1005	1SS119	DIODE SI	
D1006	MA2C18500E	DIODE SI	
D1007	B0HAHP000014	DIODE SI	
D1007	B0HAJP000007	DIODE SI	
D1007	B0HAMP000061	DIODE SI	
D1007	B0HAMP000069	DIODE SI	

D 1001	בטטטטט	טוטטב טו	1
Ref. No.	Part No.	Part Name & Description	Remarks
D1009	B0JAME000079	DIODE SI	
D1009	B0JAME000049	DIODE SI	
D1009	B0JANE000011	DIODE SI	
D1009	B0JANE000022	DIODE SI	
D1010	B0JANG000006	DIODE SI	
D1011	MAZ22000A	DIODE ZENER 20V	Δ
D1013	B0HAHP000014	DIODE SI	
D1013	B0HAJP000007	DIODE SI	
D1013	B0HAMP000061	DIODE SI	
D1013	B0HAMP000069	DIODE SI	
D1202	B0AAML000001	DIODE SI	
D1202	B0EAKL000008	DIODE SI	
D1204	B0AAML000001	DIODE SI	
D1204	B0EAKL000008	DIODE SI	
D1204	MAZ4100NHF	DIODE ZENER 10V	
D1205	RD10JSAB3	DIODE ZENER 10V	
D1203	MAZ4110NHF	DIODE ZENER 11V	
D1210	MA2C165001VT	DIODE SI	
D1210	B0AACK000004	DIODE SI	
D1210	1SS119	DIODE SI	
D1210	MA2C165001VT	DIODE SI	
D1211	B0AACK000004	DIODE SI	
D1211	1SS119	DIODE SI	
D5501	MAZ40620L1KT	DIODE SI	Α
D3301	WIAZ406ZULTKT	DIODE ZENER 6.2V	Δ.
D6001	B3EA00000072	SENSOR LED	
D6002	MA2C165001VT	DIODE SI	
D6002	B0AACK000004	DIODE SI	
D6002	1SS119	DIODE SI	
D6003	MA2C165001VT	DIODE SI	
D6003	B0AACK000004	DIODE SI	
D6003	1SS119	DIODE SI	
D6009	MA2C165001VT	DIODE SI	
D6009	B0AACK000004	DIODE SI	
D6009	1SS119	DIODE SI	
D6010	MA2C165001VT	DIODE SI	
D6010	B0AACK000004	DIODE SI	
D6010	1SS119	DIODE SI	
D6011	MA2C165001VT	DIODE SI	
D6011	B0AACK000004	DIODE SI	
D6011	1SS119	DIODE SI	
D6201	MA2C165001VT	DIODE SI	
D6201	B0AACK000004	DIODE SI	
D6201	1SS119	DIODE SI	
D6202	MA2C165001VT	DIODE SI	
D6202	B0AACK000004	DIODE SI	
D6202	1SS119	DIODE SI	
D6204	MAZ4047NMF	DIODE ZENER 4.7V	
D6301	B3AAA0000538	LIGHT EMITTING DIODE RED	
D6303	B3ABA0000400	LIGHT EMITTING DIODE GREEN	
D6304	B3ACA0000192	LIGHT EMITTING DIODE ORANGE	

## **RESISTORS**

Def Ne	Don't No.	Bant Nama & Basanintian	Dl
Ref. No. R401	Part No. ERDS2TJ471	Part Name & Description  CARBON 1/4W 470	Remarks
R402	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R409	ERJ6GEYJ333V	MGF CHIP 1/10W 33K	
R410 R411	ERDS2TJ392	CARBON 1/4W 3.9K	
	ERJ6GEYJ823V	MGF CHIP 1/10W 82K	
R413	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	Α
R414	ERDS1FJ1R2P	CARBON 1/2W 1.2	Δ
R422	ERD25FJ101P	CARBON 1/4W 100	A
R427	ERQ14AJ5R6P	FUSE 1/4W 5.6	Δ
R431	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R432	ERJ6GEYJ563V	MGF CHIP 1/10W 56K	
R433	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	
R434	ERDS2TJ103	CARBON 1/4W 10K	
R435	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R436	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R466	ERJ6GEYJ683V	MGF CHIP 1/10W 68K	
R468	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R472	ERDS2TJ472	CARBON 1/4W 4.7K	
R480	ERDS2TJ392	CARBON 1/4W 3.9K	
R501	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R502	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R503	ER0S2THF7501	PRECISION METAL FILM 1/4W 7.5K	Δ
R503	ER0S2TKF7501	PRECISION METAL FILM 1/4W 7.5K	Δ
R503	VRESR4TF7501	PRECISION METAL FILM 1/4W 7.5K	Δ
R504	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R505	ERDS2TJ561	CARBON 1/4W 560	
R509	ERDS2TJ101	CARBON 1/4W 100	
R511	ERG2ANJ222H	METAL OXIDE 2W 2.2K	
R514	ERDS1FJ1R0P	CARBON 1/2W 1	Δ
R516	LAR05222J09	W FLMPRF 5W 2.2K	
R517	ERDS2TJ472	CARBON 1/4W 4.7K	
R519	ERDS2TJ123	CARBON 1/4W 12K	
R525	ERDS2TJ122	CARBON 1/4W 1.2K	
R529	ERDS2TJ103	CARBON 1/4W 10K	
R531	ERDS2TJ223	CARBON 1/4W 22K	
R533	ERDS2TJ152	CARBON 1/4W 1.5K	
R534	ERDS2TJ561	CARBON 1/4W 560	
R535	ERDS2TJ471	CARBON 1/4W 470	
R536	ERG2ANJ153H	METAL OXIDE 2W 15K	
R537	ERG2ANJ153H	METAL OXIDE 2W 15K	
R538	ERDS2TJ473	CARBON 1/4W 47K	
R539	ERDS2TJ473	CARBON 1/4W 47K	
R540	ERDS2TJ562	CARBON 1/4W 5.6K	
R541	ERDS2TJ222	CARBON 1/4W 2.2K	
R542	ERDS2TJ473	CARBON 1/4W 47K	
R543	ERDS2TJ102	CARBON 1/4W 1K	
R544	ERDS2TJ101	CARBON 1/4W 100	
R545	ERDS2TJ152	CARBON 1/4W 1.5K	
R546	ERDS2TJ223	CARBON 1/4W 22K	
R552	ERDS2TJ472	CARBON 1/4W 4.7K	
R553	ERDS2TJ102	CARBON 1/4W 1K	

NOOT ENDOLIGIES OFFICE HATELEN

Ref. No.	Part No.	Part Name & Description	Remarks
R555	ERDS2TJ823	CARBON 1/4W 82K	Remarks
R556	ERDS2TJ823	CARBON 1/4W 82K	
R557	ERG2SJ331H	METAL OXIDE 2W 330	
R558	ERG2ANJ561H	METAL OXIDE 2W 560	
R559	ERDS2TJ123	CARBON 1/4W 12K	
R561	ERQ1CKPR47S	FUSE 1W 0.47	A
R562	EDECAKODOD	WIDEWOLIND ELAMEDDOGE OW 2.0	
R571	ERF2AK3R9P ERDS2TJ101	WIREWOUND FLAMERROOF 2W 3.9	
R571	ERJ6GEYJ331V	CARBON 1/4W 100 MGF CHIP 1/10W 330	
R572	ERDS2TJ221	CARBON 1/4W 220	
R574	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R581	ERDS1FJ1R5P	CARBON 1/2W 1.5	A
11.501	EKDON OTKO	CARBON 1/2W 1.5	Δ
R582	ERDS1FJ1R5P	CARBON 1/2W 1.5	Δ
R584	ERDS2TJ272	CARBON 1/4W 2.7K	
R585	ERDS2TJ473	CARBON 1/4W 47K	
R586	ERDS2TJ393	CARBON 1/4W 39K	
R591	ERF5ZJ121	W FLMPRF 5W 120	
R801	ERF3AKR82	W FLMPRF 3W 0.82	<u> </u>
R802	ERDS1FJ103P	CARBON 1/2W 10K	Δ
R802	ERDS1FPJ103	CARBON 1/2W 10K	Δ
R804	ERF15ZJ181	W FLMPRF 15W 180	
R805	ERDS2TJ104	CARBON 1/4W 100K	
R806	ERQ14AJ470P	FUSE 1/4W 47	Δ
R810	ERDS2TJ103	CARBON 1/4W 10K	
R813	ERDS2TJ104	CARBON 1/4W 100K	
R818	VRESC2TK825T	SOLID 1/2W 8.2M	Δ
R865	ERDS2TJ222	CARBON 1/4W 2.2K	
R1002	ERX1SJR22P	METAL OXIDE 1W 0.22	
R1003	ERDS2TJ334	CARBON 1/4W 330K	
R1004	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R1006	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R1007	ERDS2TJ105T	CARBON 1/4W 1M	
R1008	ERDS2TJ105T	CARBON 1/4W 1M	
R1009	ERG2SJ331H	METAL OXIDE 2W 330	
R1010	ERDS2TJ272	<b>CARBON 1/4W 2.7K</b>	
R1011	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R1012	ERJ6GEYJ4R7V	MGF CHIP 1/10W 4.7	
R1013	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R1014	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R1015	ERD25FJ100P	CARBON 1/4W 10	⚠
R1015	ERD25FPJ100P	CARBON 1/4W 10	Δ
R1015	VRESF4FJ100P	CARBON 1/4W 10	Δ
R1017	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R1018	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R1020	D0HD222ZA002	MGF CHIP 1/10W 2.2K	
R1021	D1BD2431A016	MGF CHIP 1/10W 2.43K	
R1201	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R1204	ERDS2TJ331	CARBON 1/4W 330	
R1205	ERDS2TJ153	CARBON 1/4W 15K	
R1206	ERDS2TJ153	CARBON 1/4W 15K	

Ref. No.	Part No.	Part Name & Description	Remarks
R1207		MGF CHIP 1/10W 100K	Remarks
R1208	ERDS2TJ153	CARBON 1/4W 15K	
R1209	ERDS2TJ153	CARBON 1/4W 15K	
R1210	ERJ6GEYJ122V	MGF CHIP 1/10W 1.2K	
R1212	ERJ6GEYJ122V	MGF CHIP 1/10W 1.2K	
R3001	ERDS2TJ101	CARBON 1/4W 100	
R3006	ERDS2TJ101	CARBON 1/4W 100	
R3016		MGF CHIP 1/10W 120	
R3017	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R3024	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R3025	ERJ6GEYJ125V	MGF CHIP 1/10W 1.2M	
R3026	ERJ6GEYJ474V	MGF CHIP 1/10W 470K	
R3028	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R3029	ERJ6GEYJ151V	MGF CHIP 1/10W 150	
R3032	ERJ6GEYJ122V	MGF CHIP 1/10W 1.2K	
R3035	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R3036	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R3036	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R3038	ERJ6GEYJ222V ERJ6GEYJ562V	MGF CHIP 1/10W 2.2K	
R3044 R3045		MGF CHIP 1/10W 5.6K	
	ERJ6GEYJ222V ERJ6GEYJ102V	MGF CHIP 1/10W 2.2K	
R3047		MGF CHIP 1/10W 1K	
R3077	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R3084	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R3086	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R3091	ERJ6GEYJ750V	MGF CHIP 1/10W 75	
R3301	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R3302	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R3303	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R3371	ERJ6GEY0R00V		
R3372	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R3373	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R3374	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R4001	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R4002	ERJ6GEYJ334V	MGF CHIP 1/10W 330K	
R4003	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R4004	ERJ6GEYJ333V	MGF CHIP 1/10W 33K	
R4005	ERJ6GEYJ225V	MGF CHIP 1/10W 2.2M	
R4006	ERJ6GEYJ681V	MGF CHIP 1/10W 680	
R4007	ERJ6GEYJ821V	MGF CHIP 1/10W 820	
R4008	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R4009	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R4010	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R4011	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K	
R4012	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K	
R4014	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R4015	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R4018	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K	
R4021	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R4101	ERJ6GEYJ563V	MGF CHIP 1/10W 56K	
R4102	ERJ6GEYJ154V	MGF CHIP 1/10W 150K	
R4103	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R4502	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R4504	ERJ6GEYJ823V	MGF CHIP 1/10W 82K	

Ref. No.	Part No.	Part Name & Description	Remarks
R4509	ERDS2TJ100	CARBON 1/4W 10	
R4523		MGF CHIP 1/10W 0	
R4591	ERDS2TJ681	CARBON 1/4W 680	
R4592	ERDS2TJ681	CARBON 1/4W 680	
R4593	ERDS2TJ681	CARBON 1/4W 680	
R4594	ERDS2TJ681	CARBON 1/4W 680	
R4701		MGF CHIP 1/10W 560	
R5301		MGF CHIP 1/10W 220	
R5304	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R5305	ERJ6GEYJ224V	MGF CHIP 1/10W 220K	
R5306	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R5307		MGF CHIP 1/10W 0	
R5308	ERJ6GEYJ563V	MGF CHIP 1/10W 56K	
R5309	ERJ6GEYJ274V	MGF CHIP 1/10W 270K	
R5311	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R5312	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R5312	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
	ERJ6GEYJ272V		
R5314 R5315	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K MGF CHIP 1/10W 2.7K	
	ERJ6GEYJ272V		
R5316 R5317	ERDS2TJ101	MGF CHIP 1/10W 2.7K CARBON 1/4W 100	
R5317		MGF CHIP 1/10W 100	
R5401		MGF CHIP 1/10W 100	
	ERJ6GEYJ394V	MGF CHIP 1/10W 390K	
R5402	ERJ6GEYJ221V		
R5403	ERJ6GEYJ822V	MGF CHIP 1/10W 220 MGF CHIP 1/10W 8.2K	
R5405			
R5406	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5501	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R5502	ERJ6GEYJ394V	MGF CHIP 1/10W 390K	
R5503	ERDS2TJ471	CARBON 1/4W 470	
R5504	ERJ6GEYJ101V ERJ6ENF3241V	MGF CHIP 1/10W 100	Α
R5505	ERJOENF3241V	MGF CHIP 1/10W 3.24K	
R5506	ERDS2TJ473	CARBON 1/4W 47K	
R5508	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
R5510	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5511	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R5512	ERDS2TJ151	CARBON 1/4W 150	
R5513	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5604	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R5902	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R5932	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5933	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6001	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6002	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6003	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6005	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6006	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6007	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6008	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6009	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R6010	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6011	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
DC042	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6012			

Ref. No.	Part No.	Part Name & Description	Remarks
R6014	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6015	ERJ6GEYJ153V	MGF CHIP 1/10W 15K	
R6018	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R6020	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6021	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6025	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6026	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6028	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6029	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6034	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R6036	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6039	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6041	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6042	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6043	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6050	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6051	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6054	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R6056	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6058	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6059	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6060	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K	
R6061	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6062	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R6063	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R6064	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R6071	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6072	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6074	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6078	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6079	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6080	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6081	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6082	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6083	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6085	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6086	ERJ6GEYJ105V	MGF CHIP 1/10W 1M	
R6087	ERJ6GEYJ392V	MGF CHIP 1/10W 3.9K	
R6089	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R6093	ERJ6GEYJ103V ERJ6GEYJ682V	MGF CHIP 1/10W 10K	
R6094		MGF CHIP 1/10W 6.8K	+
R6095		MGF CHIP 1/10W 0	
R6098 R6101	ERJ6GEYJ103V	MGF CHIP 1/10W 0 MGF CHIP 1/10W 10K	+
R6102	ERJ6GEYJ472V	MGF CHIP 1/10W 10K	+
R6102	ERJ6GEYJ272V	MGF CHIP 1/10W 4.7K	+
R6104	ERJ6GEYJ103V	MGF CHIP 1/10W 2.7K	+
R6105	ERDS2TJ151	CARBON 1/4W 150	+
R6106	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	+
R6108	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	+
R6109	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	+
R6110	ERJ6GEYJ121V	MGF CHIP 1/10W 27K	
R6111	ERJ6GEYJ273V	MGF CHIP 1/10W 120	
R6112	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	+
	_11003L13223V	/ IVW 22N	

Ref. No.	Part No.	Part Name & Description	Remarks
R6113		MGF CHIP 1/10W 18K	Remarks
R6114		MGF CHIP 1/10W 390	
R6115		MGF CHIP 1/10W 10K	
R6117	ERDS2TJ560T	CARBON 1/4W 56	
R6118		MGF CHIP 1/10W 4.7M	
R6119		MGF CHIP 1/10W 3.3K	
R6120		MGF CHIP 1/10W 1.5K	
R6121		MGF CHIP 1/10W 220	
R6122		MGF CHIP 1/10W 220	
R6125		MGF CHIP 1/10W 22K	
R6129		MGF CHIP 1/10W 22K	
R6130		MGF CHIP 1/10W 2.2K	
R6201		MGF CHIP 1/10W 10K	
R6202		MGF CHIP 1/10W 10K	
R6203		MGF CHIP 1/10W 10K	
R6204		MGF CHIP 1/10W 10K	
R6205		MGF CHIP 1/10W 220	
R6206		MGF CHIP 1/10W 220	
R6207		MGF CHIP 1/10W 220	
R6208		CARBON CHIP 1/10W 1.2	
R6209		MGF CHIP 1/10W 1.5	
R6210		MGF CHIP 1/10W 100	
R6211	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R6212	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6213	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6214	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R6215	ERDS2TJ561	CARBON 1/4W 560	
R6216	ERJ6GEYJ681V	MGF CHIP 1/10W 680	
R6301	ERJ6GEYG222V	MGF CHIP 1/10W 2.2K	
R6302	ERJ6GEYG332V	MGF CHIP 1/10W 3.3K	
R6303	ERJ6GEYG562V	MGF CHIP 1/10W 5.6K	
R6306	ERJ6GEYG222V	MGF CHIP 1/10W 2.2K	
R6307	ERJ6GEYG332V	MGF CHIP 1/10W 3.3K	
R6308	ERJ6GEYG562V	MGF CHIP 1/10W 5.6K	
R6309	ERJ6GEYG433V	MGF CHIP 1/10W 43K	
R6311	ERJ6GEYG222V	MGF CHIP 1/10W 2.2K	
R6312	ERJ6GEYG513V	MGF CHIP 1/10W 51K	
R6313	ERJ6GEYG182V	MGF CHIP 1/10W 1.8K	
R6316	ERJ6GEYG113V	MGF CHIP 1/10W 11K	
R6317	ERJ6GEYG113V	MGF CHIP 1/10W 11K	
R6318	ERJ6GEYG113V	MGF CHIP 1/10W 11K	
R6401	ERJ6GEYJ105V	MGF CHIP 1/10W 1M	
R6407	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R6513	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6514	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6517	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6518	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R7001	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R7002	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R7003	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
J4051	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
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## **CAPACITORS**

Ref. No.	Part No.	Part Name & Description	Remarks
C401	ECA1HM2R2B	ELECTROLYTIC 50V 2.2UF	
C402	ECA1CM471B	ELECTROLYTIC 16V 470UF	
C408	ECA1HGE010KB	ELECTROLYTIC 50V 1UF	
C409	ECA1VM101B	ELECTROLYTIC 35V 100UF	
C413	ECQB1H104KF	POLYESTER 50V 0.1UF	
C414	ECA1EM102E	ELECTROLYTIC 25V 1000UF	
C418	ECA1VM221B	ELECTROLYTIC 35V 220UF	
C459	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C510	ECKR2H102KB5	CERAMIC 500V 1000PF	
C513	ECA1HM470B	ELECTROLYTIC 50V 47UF	
C524	ECKW3D221KBP	CERAMIC 2KV 220PF	
C531	ECEA1HKA3R3I	ELECTROLYTIC 50V 3.3UF	
C533	ECA1EM101B	ELECTROLYTIC 25V 100UF	
C534	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C552	ECA1EM221B	ELECTROLYTIC 25V 220	
C553	ECKR2H471KB5	CERAMIC 500V 470PF	
C554	ECWH16912JVB	POLYESTER 1.6KV 9100PF	$\triangle$
C554	LSCFN12912JB	POLYESTER 1.2KV 9100PF	Δ
C556	ECWF2434JBB	POLYESTER 500V 0.43UF	Δ
C556	LSCFM2434JM	POLYESTER 500V 0.43UF	A
C556	F0C2E434A049	POLYESTER 500V 0.43UF	Δ
C558	ECA1VM331B	ELECTROLYTIC 35V 330UF	
C560	ECA2EM100B	ELECTROLYTIC 250V 10UF	<u> </u>
C561	ECA1HM2R2B	ELECTROLYTIC 50V 2.2UF	
C563	ECEA180V33WE	ELECTROLYTIC 180V 33UF	
C571	ECEA1EKA100I	ELECTROLYTIC 25V 10UF	
C572	ECA1CM221B	ELECTROLYTIC 16V 220UF	
C573	ECKR2H122KB5	CERAMIC 50V 1200PF	
C801	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C802	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C803	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C804	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C805	EC0S2PP471BB	ELECTROLYTIC 180V 470UF	<u> </u>
C805	ECES2PU471HG	ELECTROLYTIC 180V 470UF	<u>A</u>
C805	F2B2D4710012	CAPACITOR 180V 470UF	<u>A</u>
C806	ECA2EM220E	ELECTROLYTIC 250V 22UF	
C808	F0CAF104A021	POLYESTER 125V 0.1UF	<u> </u>
C809	ECKDRS101MBY	CERAMIC 125V 100PF	<u>A</u>
C809	ECKATS101MB	CERAMIC 250V 100PF	<u>A</u>
C809	ECKETS101MB	CERAMIC 125V 100PF	Δ
C809	ECKMRS101MBY	CERAMIC 125V 100PF	<u>A</u>
C809	VCKSTJG101KW	CERAMIC 125V 100PF	<u>A</u>
C809	VCKSTLG101KW	CERAMIC 125V 100PF	Δ
C809	VCKSUJD101KW	CERAMIC 125V 100PF	Δ
C809	VCKSULD101KW	CERAMIC 125V 100PF	Δ
C811	ECKATS152ME	CERAMIC 250V 1500PF	Δ
C811	ECKETS152ME	CERAMIC 250V 1500PF	Δ

Ref. No.	Part No.	Part Name & Description	Remarks
C811	VCKST4D152MX	CERAMIC 250V 1500PF	Δ
C811	VCKST5D152MX	CERAMIC 250V 1500PF	<u>A</u>
C811	VCKSU4D152MX	CERAMIC 250V 1500PF	Δ
C811	VCKSU5D152MX	CERAMIC 250V 1500PF	Δ
C1001	ECKATS332ME8	CERAMIC 250V 3300PF	Δ
C1001	ECKDNB332ME8	CERAMIC 125V 3300PF	Δ
C1001	ECKETS332ME8	CERAMIC 125V 3300PF	Δ
C1001	VCKST3G332MX	CERAMIC 250V 3300PF	Δ
C1001	VCKSU3D332MX	CERAMIC 125V 3300PF	Δ
C1002	ECKATS332ME8	CERAMIC 250V 3300PF	Δ
C1002	ECKDNB332ME8	CERAMIC 125V 3300PF	Δ
C1002	ECKETS332ME8	CERAMIC 125V 3300PF	Δ
C1002	VCKST3G332MX	CERAMIC 250V 3300PF	Δ
C1002	VCKSU3D332MX	CERAMIC 125V 3300PF	Δ
C1005	ECEA2DU820YE	ELECTROLYTIC 200V 82UF	Δ
C1005	F2A2D8200001	ELECTROLYTIC 200V 82UF	Δ
C1005	F2A2D8200003	ELECTROLYTIC 200V 82UF	Δ
C1005	VCESR2D820XE	ELECTROLYTIC 200V 82UF	Δ
C1006	ECKN3A821KBP	CERAMIC 1KV 820PF	
C1007	F1A3A472A010	CERAMIC 1KV 4700UF	
C1008	ECQB1H223JF	POLYESTER 50V 0.022UF	
C1009	ECQB1H223JF	POLYESTER 50V 0.022UF	
C1010	ECQB1H104JF3	POLYESTER 50V 0.1UF	
C1011	ECQB1H103JF3	POLYESTER 50V 0.01UF	
C1012	ECKNTS102ME	CERAMIC 125V 1000PF	Δ
C1012	F1BAF1020006	CERAMIC 50V 1000PF	Δ
C1012	VCKSUND102MX	CERAMIC 125V 1000PF	Δ
C1013	ECJ2VC1H101J	C CHIP 50V 100PF	
C1014	ECJ2VC1H101J	C CHIP 50V 100PF	
C1015	ECEA1PEE331	ELECTROLYTIC 18V 330UF	
C1017	ECJ2VB1E104K	C CHIP 25V 0.1UF	
C1018	EEUFF1E471B	ELECTROLYTIC 25V 471UF	
C1019	ECA0JM102B	ELECTROLYTIC 6.3V 1000UF	
C1020	ECA1HM470I	ELECTROLYTIC 50V 47UF	
C1021	ECA1EM331B	ELECTROLYTIC 25V 330UF	
C1025	ECKDRS101MBY	CERAMIC 125V 100PF	Δ
C1025	ECKATS101MB	CERAMIC 250V 100PF	Δ
C1025	ECKETS101MB	CERAMIC 125V 100PF	Δ
C1025	ECKMRS101MBY	CERAMIC 125V 100PF	Δ
C1025	VCKSTJG101KW	CERAMIC 125V 100PF	Δ
C1025	VCKSTLG101KW	CERAMIC 125V 100PF	Δ
C1025	VCKSUJD101KW	CERAMIC 125V 100PF	Δ
C1025	VCKSULD101KW	CERAMIC 125V 100PF	Δ
C1209	ECEA1CKA220	ELECTROLYTIC 16V 22UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C1211	ECEA0JEE101	ELECTROLYTIC 6.3V 100UF	
C1212	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C1215	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C1216	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C1217	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C3002	ECJ2VC1H020C	C CHIP 50V 2P	
C3003	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3004	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3006	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3007	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C3008	ECJ2VC1H181J	C CHIP 50V 180PF	
C3009	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C3010	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3013	ECJ2VF1C224Z	C CHIP 16V 0.22UF	
C3015	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C3016	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C3019	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
		ELECTROLYTIC 36V 2:20F	
C3020	ECEATUKA2D2		
C3021	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C3022	ECJ2VF1C224Z	C CHIP 16V 0.22UF	
C3023	ECJ2VC1H680J	C CHIP 50V 68PF	
C3024	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3025	ECJ2VB1E104K	C CHIP 25V 0.1UF	
C3026	ECJ2VB1H822K	C CHIP 50V 8200PF	
C3027	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3030	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3031	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3032	ECJ2VF1C474Z	C CHIP 16V 0.47UF	
C3034	ECJ2VC1H181J	C CHIP 50V 180PF	
C3035	ECJ2VC1H330J	C CHIP 50V 33PF	
C3036	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3038	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C3043	ECJ2VB1H392K	C CHIP 50V 3900PF	
C3044	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3045	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C3046	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C3047	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C3048	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3050	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C3055	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3056	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3057	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3058	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3082	ECJ2VB1H332K	C CHIP 50V 3300PF	
C3231	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C3232	ECJ2VB1H102K	C CHIP 50V 1000PF	
C3234	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C3235	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3236	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3237	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3372	ECJ2VC1H220J	C CHIP 50V 22PF	
C3373	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3377	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C3378	ECEA1CKA100	ELECTROLYTIC 16V 10UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C3503	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3506	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C4001	ECJ2VF1C224Z	C CHIP 16V 0.22UF	
C4002	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4003	ECJ2VB1H272K	C CHIP 50V 2700PF	
C4004	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C4005	ECEA0JKA220	ELECTROLYTIC 6.3V 22UF	
C4006	ECJ2VB1H102K	C CHIP 50V 1000PF	
C4007	ECEA0JKA220	ELECTROLYTIC 6.3V 22UF	
C4008	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C4009	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4010	ECJ2VB1E333K	C CHIP 25V 0.033UF	
C4011	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C4012	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4013	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C4014	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4018	ECJ2VB1H223K	C CHIP 50V 0.022UF	
C4020	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4102	ECQB1562JF3	POLYESTER 100V 5600PF	
C4103	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C4104	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C4105	ECEA1CKA220	ELECTROLYTIC 16V 22UF	
C4502	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4502	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C4504	ECEA1CKA470	ELECTROLYTIC 25V 4.70F	
C4508	ECA1CM221B	C CHIR 25V 0 047UE	
C4509	ECJ2VB1E473K	C CHIP 25V 0.047UF	
C4521	ECA1EM102B	ELECTROLYTIC 25V 1000UF	
C4524	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5301	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C5302	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C5303	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C5305	ECEA1HKAR33	ELECTROLYTIC 50V 0.33UF	
C5306	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C5307	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C5308	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C5401		C CHIP 16V 0.22UF	
C5402	ECJ2VB1H222K	C CHIP 50V 2200PF	
C5403	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C5501	ECJ2VB1E183K	C CHIP 25V 0.018UF	
C5502	ECJ2VB1H681K	C CHIP 50V 680PF	
C5505	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C5506	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5507	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C5508	ECUV1H221JSN	C CHIP 50V 220PF	
C5510	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C5511	ECJ2VB1E333K	C CHIP 25V 0.033UF	
C5516	ECJ2VB1E333K	C CHIP 25V 0.033UF	
C5601	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5602	ECJ2VB1E104K	C CHIP 25V 0.1UF	
C5603	ECJ2VC1H150J	C CHIP 50V 15PF	
C5604	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C5605	ECJ2VB1E153K	C CHIP 25V 0.015UF	
C5902	ECEA1CKA470	ELECTROLYTIC 16V 47UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C5903	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C5904	ECJ2VB1C104K	C CHIP 16V 0.1UF	
C5905	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C5906	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5907	ECJ2VF1H104Z	C CHIP 50V 0.1UF	
C5932	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C6001	ECEA0JKA331	ELECTROLYTIC 6.3V 330UF	
C6002	ECJ2VC1H220J	C CHIP 50V 22PF	
C6003	ECJ2VC1H180J	C CHIP 50V 18PF	
C6005	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C6006	ECJ2VB1E104K	C CHIP 25V 0.1UF	
C6007	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6008	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C6010	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C6015	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C6016	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C6019	ECJ2VC1H330J	C CHIP 50V 33PF	
C6020	ECEA1HKS010	ELECTROLYTIC 50V 1UF	
C6021	ECEA0JKA220	ELECTROLYTIC 6.3V 22UF	
C6022	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C6023	ECJ2VB1H272K	C CHIP 50V 2700PF	
C6024	ECJ2VB1H123K	C CHIP 50V 0.012UF	
C6025	ECJ2VB1E104K	C CHIP 25V 0.1UF	
C6026	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6027	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C6030	ECJ2VF1H104Z	C CHIP 50V 0.1UF	
C6032	ECJ2VC1H101J	C CHIP 50V 100PF	
C6033	ECJ2VC1H101J	C CHIP 50V 100PF	
C6037	ECJ2VB1H102K	C CHIP 50V 1000PF	
C6101	ECJ2VF1H104Z	C CHIP 50V 0.1UF	
C6102	ECJ2VF1H104Z	C CHIP 50V 0.1UF	
C6201	ECJ2VB1E563K	C CHIP 25V 0.056UF	
C6202	ECJ2VB1E563K	C CHIP 25V 0.056UF	
C6203	ECJ2VB1H562K	C CHIP 50V 5600PF	
C6204	ECJ2VB1H562K	C CHIP 50V 5600PF	
C6205	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C6207		C CHIP 16V 0.22UF	
C6208	ECJ2VB1H223K	C CHIP 50V 0.022UF	
C6209	ECJ2VB1H223K	C CHIP 50V 0.022UF	
C6210	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C6211	ECJ2VB1H102K	C CHIP 50V 1000PF	
C6212	ECJ2VB1H102K	C CHIP 50V 1000PF	
C6213	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C6214	ECJ2VB1H182K	C CHIP 50V 1800PF	
C6215	ECJ2VF1H104Z	C CHIP 50V 0.1UF	
C6216	ECEA0JKA221	ELECTROLYTIC 6.3V 220UF	
C6217	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C6218	ECJ2VB1C104K	C CHIP 16V 0.1UF	
C6219	ECJ2VB1C104K	C CHIP 16V 0.1UF	
C6220	ECJ2VB1C104K	C CHIP 16V 0.1UF	
C6221	ECA1EM221B	ELECTROLYTIC 25V 220	
C6222	ECEA0JKA221	ELECTROLYTIC 6.3V 220UF	
C6228	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C6302	ECJ2VF1H104Z	C CHIP 50V 0.1UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C6401	ECJ2VF1H104Z	C CHIP 50V 0.1UF	
C6402	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6403	ECJ2VB1H102K	C CHIP 50V 1000PF	
C6404	ECJ2VB1H333K	C CHIP 50V 0.033UF	
C6405	ECJ2VB1H102K	C CHIP 50V 1000PF	
C6406	ECJ2VC1H561J	C CHIP 50V 560PF	
C6407	ECJ2VB1C104K	C CHIP 16V 0.1UF	
C6408	ECJ1VC1H820J	C CHIP 50V 82PF	
C6409	ECJ2VC1H101J	C CHIP 50V 100PF	
C7001	ECEA0JKA331I	ELECTROLYTIC 6.3V 330UF	
C7010	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C7013	ECEA1HKA010	ELECTROLYTIC 50V 1UF	

## **COILS**

Ref. No.	Part No.	Part Name & Description	Remarks
L501	ELH5L423	COIL	Δ
L501	ELH5L4108	COIL	Δ
L501	G0D510000001	COIL	Δ
L503	ELESN101KA	COIL 100UH	
L552	J0JKA0000015	COIL	
L553	VLQSW07D220M	COIL 22UH	
L803	G0B822G00003	LINE FILTER 1.8A 8.2MH	A
L803	ELF21V018A	LINE FILTER 1.8A 8.2MH	Δ
L803	LLN63055A	LINE FILTER 1.8A 8.2MH	Δ
L1001	G0B183E00002	LINE FILTER 0.5A 18MH	Δ
L1001	ELF15N005A	LINE FILTER 0.5A 18MH	Δ
L1001	J0HBLD000001	LINE FILTER 0.5A 18MH	Δ
L1003	J1ZZA000001	RESONANT SNUBBER	
L1005	VLQSAB7D100K	COIL 10UH	
L1006	G0A220G00018	COIL 22UH	
L3001	G0C390KA0045	COIL 39UH	
L3002	ELESN101KA	COIL 100UH	
L3005	G0C330KA0045	COIL 33UH	
L3010	ELESN470KA	COIL 47UH	
L3231	ELESN221KA	COIL 220UH	
L3301	ELESN101KA	COIL 100UH	
L3507	ELESN101KA	COIL 100UH	
L4001	ELELN153KA	COIL 15MH	
L4002	ELESN101KA	COIL 100UH	
L4101	ELESN471KA	COIL 470UH	
L5901	ELESN101KA	COIL 100UH	
L5902	ELESN470KA	COIL 47UH	
L6401	ELEXT101KE04	COIL 100UH	
L6402	G0C4R7JA0019	COIL 4.7UH	
L6403	J0JBC0000022	CHIP BEAD INDUCTOR	
L6404	J0JBC0000022	CHIP BEAD INDUCTOR	
L6405	J0JBC0000022	CHIP BEAD INDUCTOR	
L6406	J0JBC0000022	CHIP BEAD INDUCTOR	
L7001	VLQSAB7D100K	COIL 10UH	
L7002	ELEXT101KE04	COIL 100UH	

## **CRYSTAL OSCILLATOR**

Ref. No.	Part No.	Part Name & Description	Remarks
X3001	H0D357400071	CRYSTAL OSCILLATOR	
X5501	H2A503300012	CRYSTAL OSCILLATOR	
X5601	H0B357400003	CRYSTAL OSCILLATOR	
X6001	H0D120500016	CRYSTAL OSCILLATOR	

## **PIN HEADERS**

Ref. No.	Part No.	Part Name & Description	Remarks
P552	LSJWE4S360LL	CONNECTOR CABLE W/PLUG	
P801	VEKS5809	CONNECTOR CABLE W/OUT PLUG	
P803	LSJP0814	CONNECTOR 2P	
P3001	K1MN06A00060	CONNECTOR 6P	
P4001	K1MZ02A00003	CONNECTOR 2P	
P4002	K1MN06A00030	CONNECTOR 6P	
P4591	K1KA02A00229	CONNECTOR 2P	
P5301	LSJWD4S490LL	CONNECTOR CABLE W/PLUG	
P6001	K1KA05A00268	CONNECTOR 5P	
P6201	K1KA08A00290	CONNECTOR 8P	
P6202	K1MN07A00017	CONNECTOR 7P	
P6203	K1KA02A00375	CONNECTOR 2P	

## **SWITCHES**

Ref. No.	Part No.	Part Name & Description	Remarks
SW6001	K0C111A00006	SWITCH	
SW6002	K0ZZ00000598	SWITCH	
SW6303	EVQ21405R	SWITCH PUSH	
SW6304	EVQ21405R	SWITCH PUSH	
SW6306	EVQ21405R	SWITCH PUSH	
SW6307	EVQ21405R	SWITCH PUSH	
SW6308	EVQ21405R	SWITCH PUSH	
SW6309	EVQ21405R	SWITCH PUSH	
SW6310	EVQ21405R	SWITCH PUSH	
SW6312	EVQ21405R	SWITCH PUSH	
SW6315	EVQ21405R	SWITCH PUSH	
SW6316	EVQ21405R	SWITCH PUSH	
SW6317	EVQ21405R	SWITCH PUSH	

## **FUSE & PROTECTOR**

Ref. No.	Part No.	Part Name & Description	Remarks
F801	K5D402AQ0002	FUSE 125V 4A	Δ
F801	K5D402AB0002	FUSE 125V 4A	Δ
F801	K5D402ADA002	FUSE 125V 4A	A
F801	K5D402ADA006	FUSE 125V 4A	⚠
F1001	K5D162AQ0004	FUSE 125V 1.6A	<u>A</u>
F1001	K5D162ADA001	FUSE 125V 1.6A	Δ
F1001	K5D162ADA008	FUSE 125V 1.6A	⚠
PR4521	LSSF009AR37E	IC PROTECTOR 1.5A	Δ

## **RELAY**

Ref. No.	Part No.	Part Name & Description	Remarks
RL801	LSSY0004	RELAY	Δ
RL801	K6B1AGA00034	RELAY	Δ
RL801	K6B1AGA00042	RELAY	Δ
RL801	TSE1860	RELAY	Δ
RL801	TSEH0013	RELAY	Δ

## **TRANSFORMER**

Ref. No.	Part No.	Part Name & Description	Remarks
T501	ETH09K8AZ	TRANSFORMER	
T551	G4G5J0000001	FLYBACK TRANSFORMER	Δ
T1001	LSTP0126	TRANSFORMER	Δ
T4101	G2A342C00003	TRANSFORMER	

## **JACKS**

Ref. No.	Part No.	Part Name & Description	Remarks
JK4591	K2HC103B0145	FRONT AUDIO/VIDEO JACK SOCKET	
JK4701	K2HA104B0007	EARPHONE JACK SOCKET	

## **MISCELLANEOUS**

Ref. No.	Part No.	Part Name & Description	Remarks
483	XYN3+F10S	SCREW W/WASHER,STEEL	
484	XTW3+10J	TAPPING SCREW,STEEL	
487	XYN3+J8	SCREW W/WASHER,STEEL	
488	XYN3+F6S	SCREW W/WASHER,STEEL	
711	PNA4611M00HC	INFRARED RECEIVER UNIT	
719	VMFS0136	SHEET,NYLON-RAYON	
743	ENG36A11GF	TUNER,UHF/VHF NR	
751	LML69001A	ANODE LEAD CLAMPER	
767	TUC77626	HEAT SINK	
768	TUC77603-1	HEAT SINK	
769	LUS23005B	HEAT SINK	
771	EYF52BC	FUSE HOLDER	

## 14.3.2. HEAD AMP C.B.A.

## INTEGRATED CIRCUITS

Ref. No.	Part No.	Part Name & Description	Remarks
IC3501	AN3371SB	IC, LINEAR	

## **RESISTORS**

Ref. No.	Part No.	Part Name & Description	Remarks
R3507	ERJ6GEYJ331V	MGF CHIP 1/10W 330	

## **CAPACITORS**

Ref. No.	Part No.	Part Name & Description	Remarks
C3504	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C3505	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C3506	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3508	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3511	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3512	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3513	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3528	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C3529	ECJ2VF1H103Z	C CHIP 50V 0.01UF	

## COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L3501	G0C101KA0045	COIL 100UH	

## **PIN HEADERS**

Ref. No.	Part No.	Part Name & Description	Remarks
P3501	K1MN06B00149	CONNECTOR 6P	

## 14.3.3. CRT C.B.A.

## **TRANSISTORS**

Ref. No.	Part No.	Part Name & Description	Remarks
Q351	2SC3063000RL	TRANSISTOR SI NPN	
Q351	B1BAAN000034	TRANSISTOR SI NPN	
Q351	B1BAAN000035	TRANSISTOR SI NPN	
Q352	2SC3063000RL	TRANSISTOR SI NPN	
Q352	B1BAAN000034	TRANSISTOR SI NPN	
Q352	B1BAAN000035	TRANSISTOR SI NPN	
Q353	2SC3063000RL	TRANSISTOR SI NPN	
Q353	B1BAAN000034	TRANSISTOR SI NPN	
Q353	B1BAAN000035	TRANSISTOR SI NPN	

## **DIODES**

Ref. No.	Part No.	Part Name & Description	Remarks
D351	MAZ41500MF	DIODE ZENER 15V	
D351	B0BA01400041	DIODE ZENER 15V	

## **RESISTORS**

Ref. No.	Part No.	Part Name & Description	Remarks
R351	ERG2ANJ153H	METAL OXIDE 2W 15K	
R352	ERG2ANJ153H	METAL OXIDE 2W 15K	
R353	ERG2ANJ153H	METAL OXIDE 2W 15K	
R354	ERD25TJ272	CARBON 1/4W 2.7K	
R355	ERD25TJ272	CARBON 1/4W 2.7K	
R356	ERD25TJ272	CARBON 1/4W 2.7K	
R357	ERDS2TJ392	CARBON 1/4W 3.9K	
R358	ERDS2TJ392	CARBON 1/4W 3.9K	
R359	ERDS2TJ392	CARBON 1/4W 3.9K	
R360	ERDS2TJ391	CARBON 1/4W 390	
R361	ERDS2TJ391	CARBON 1/4W 390	
R362	ERDS2TJ391	CARBON 1/4W 390	
R363	ERDS2TJ121	CARBON 1/4W 120	
R364	ERDS2TJ121	CARBON 1/4W 120	
R365	ERDS2TJ121	CARBON 1/4W 120	

## **CAPACITORS**

Ref. No.	Part No.	Part Name & Description	Remarks
C351	F1D1H471A012	CERAMIC 50V 470PF	
C352	F1D1H471A012	CERAMIC 50V 470PF	
C353	F1D1H561A012	CERAMIC 50V 560PF	
C354	F1B3D1020008	CERAMIC 2KV 1000PF	

## **PIN HEADERS**

Ref. No.	Part No.	Part Name & Description	Remarks
P353	K3B10AA00001	CRT SOCKET	

## **MISCELLANEOUS**

Ref. No.	Part No.	Part Name & Description	Remarks
153	TMM7443-1	CLAMPER	

# 15. SCHEMATIC DIAGRAMS FOR PRINTING WITH LETTER SIZE

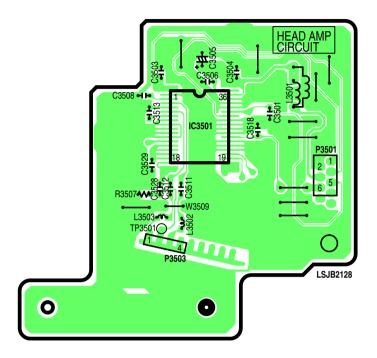
#### **HEAD AMP C.B.A. LSEP2128A**

NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

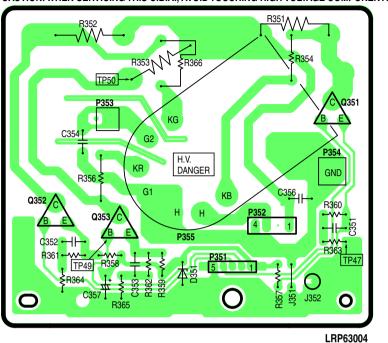
NOTE

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.



## CRT C.B.A. LRP63004D (A,B,C,D)

CAUTION: WHEN SERVICING THIS C.B.A., AVOID TOUCHING HIGH VOLTAGE COMPONENTS.



NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

TE:

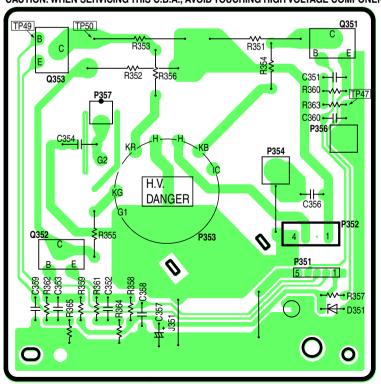
CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

#### COMPARISON CHART OF MODELS & MARKS

OF WODELS & WARKS		
MODEL	MARK	
	Α	
PV-C1324-K	В	
	С	
PV-C1334W-K	D	
	Е	
PV-C2024-K	F	

## CRT C.B.A. LRP63022B (E,F)

CAUTION: WHEN SERVICING THIS C.B.A., AVOID TOUCHING HIGH VOLTAGE COMPONENTS.



NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

NOTE:

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

HEAD AMP C.B.A. LSEP2128A

CRT C.B.A. LRP63004D

CRT C.B.A. LRP63022B

PV-C1324-K/PV-C1334W-K/PV-C2024-K

#### 1. Important safety notice

Components identified by the sign have special characteristics important for safety. When replacing any of these components. Use only the specified parts.

Do not use the part number shown on this drawing for ordering.

The correct part number and part value is shown in the parts list, and may be slightly different or amended since this drawing was prepared.

#### 3. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

- Parts different in shape or size may be used.
   However, only interchangeable parts will be supplied as service replacement parts.
- 5. Test point information
  - ① :Test point with a jumper wire across a hole in P.C.B.
  - :Test point with no test pin.

## **Schematic Diagram Notes**

Indication for Zener Voltage of Zener Diodes
 The Zener Voltage of Zener Diodes are indicated as such on Schematic Diagrams.

Example:

(6.2V).....Zener Voltage

2. How to identify Connectors

Each connector is labeled with a Connector No. and Pin No. Indicating what it is connected to,

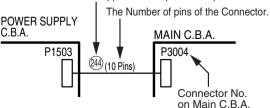
in other words, its counter part.

Use the interconnection schematic diagram to find the connection between associated connectors.

#### Example:

The connections between C.B.A.s are shown below.

Ref. No. of the connection parts such as lead cable, flexible cable which is supplied as a replacement parts.

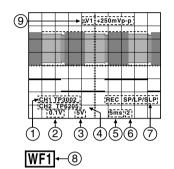


Parts marked "PT" are not used in any models included in this service model.

Jumper wires are used for WA10, WA5 etc and these are not supplied as replacement parts.

## **Signal Waveform Note**

How to read Signal Waveform



- 1 Connecting Point
- 2 Volts/Div
- 3 Volts/Div
- 4 Connecting Point
- 5 Time/Div
- 6 Trigger Channel of the scope (1:CH1,2:CH2)
- Operation Mode of VCR
- 8 Waveform Point on Schematic
- ΔV1:Peak to Peak

## **Circuit Board Layout Note**

Circuit Board Layout shows components installed for various models.

For proper parts content for the model you are servicing, please refer to the schematic diagram and parts list.

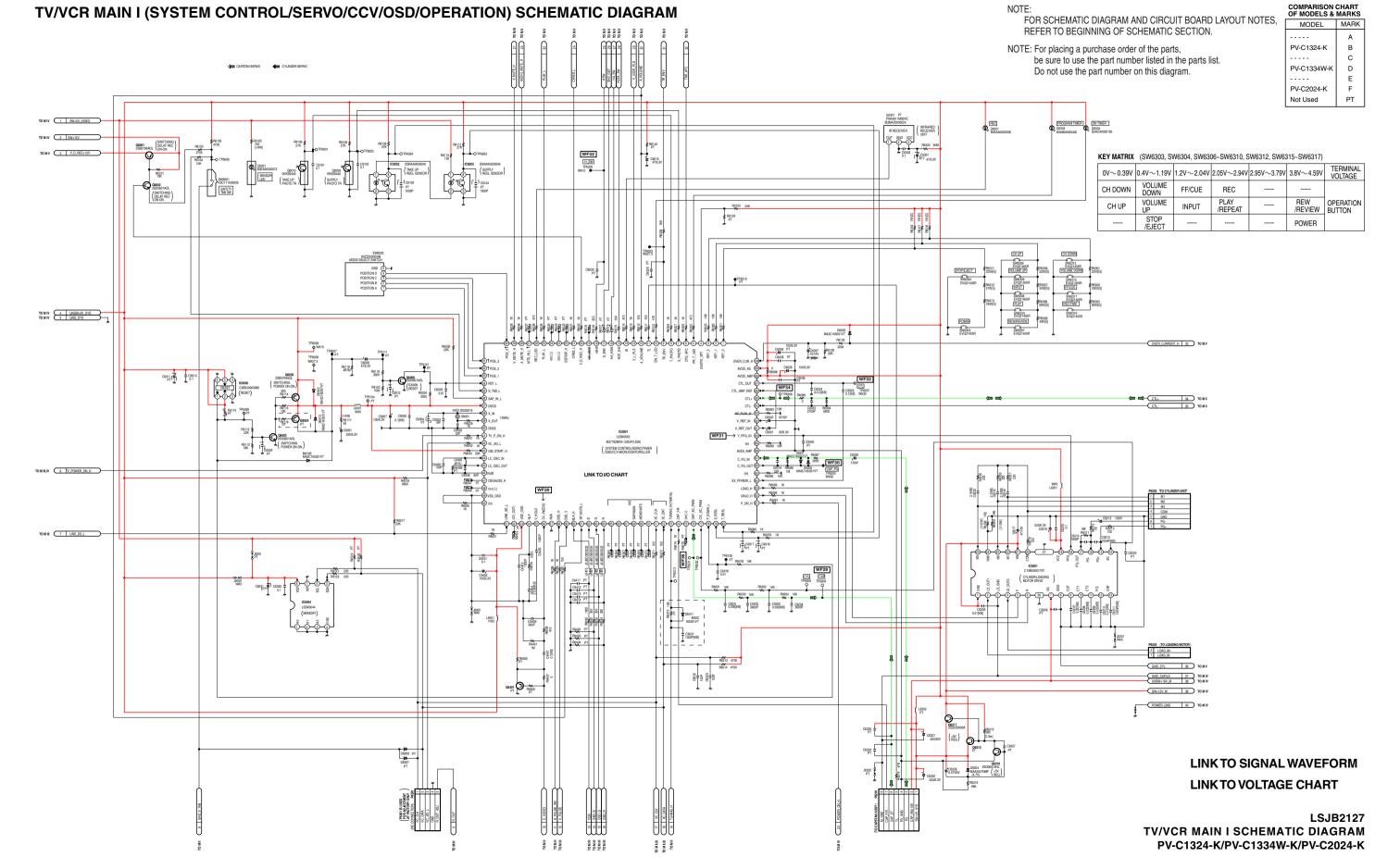
#### NOTE:

Circuit Board Layout includes components which are not used.

## Model No. Identification Mark

MODEL	MARK
	Α
PV-C1324-K	В
	С
PV-C1334W-K	D
	Е
PV-C2024-K	F
Not Used	PT

Note: Refer to item 3 of Schematic Diagram Notes for mark "PT".



### I/O CHART OF IC6001

Pin No.	1/0	Signal Name	Description
1	1/0	KEY_0	KEY DATA 0
2	<u> </u>	KEY_1	KEY DATA 1
_		KEY 2	KEY DATA 2
3	ı		
_	-	2/4/STE-OPT	NOT USED
5	-	PR_T_LED	PROGRAM TIMER LED ON(L)
6	1	DTS_AFC	TUNER AFC
7	1	S_PHOTO	SUPPLY PHOTO TR ON(L)
8	1	T_PHOTO	TAKEUP PHOTO TR ON(L)
9	1	TR_ENV	ENV VOLTAGE
10	0	ON_T_LED	ON TIMER LED ON(L)
11	0	TL	CAPSTAN TORQUE COMMAND
12	0	A_VOLUME	AUDIO VOLUME
13	0	V_L_PLS	V-LOCK PULSE
14	1	IR	IR-DATA
15	0	ROT_SW	ROTARY SW
16	-	HA_HSW	NOT USED
17	-	D_ENV	NOT USED
18	0	HSW	HEAD SW PULSE
19	-		NOT USED
20	0	V_D_REC_H	VIDEO DELAY REC(H)
21	0	CRSS_L	CUE/REV/SS(L)
22	-	DEFEAT_H	NOT USED
23	-	(out-L)	NOT USED
24	-	(out-L)	NOT USED
25	0	PLAY_L	PB(L)
26	0	REC_LED	REC_LED ON(L)
27	-	MTS_IN_L	NOT USED
28	0	A_MUTE_H	AUDIO MUTE(H)
29	0	V_MUTE_H	V-MUTE(H)
30	Τ	POS_4	MODE SW POSITION D
31	Τ	POS_3	MODE SW POSITION C
32	Ι	POS_2	MODE SW POSITION B
33	Ι	POS_1	MODE SW POSITION A
34	Ι	RST_L	RESET(L)
35	Ι	S_TAB_L	SAFETY TAB ON(L)
36	Ι	SAP_IN_L	(Not used)
37	Ι	DVDD	VDD(+5V)
38	Ι	X_IN	12MHz OSCILLATOR
39	0	X_OUT	12MHz OSCILLATOR
40	-	DVSS	GROUND
41	0	TV_P_ON_H	TV POWER ON(H)
42	ı	IIC_JIG_L	I2C SERVICE MODE(L)
43	Ť	12M_START_H	12MHz CLOCK START(H)
44	İ	LC_OSC_IN	LC OSCILLATOR
45	0	LC_OSC_OUT	LC OSCILLATOR
46	-	NUB	NOT USED
47		DEGAUSS_H	NOT USED
48	-	(out-L)	NOT USED
49	-	VSS_OSD	GROUND
50	Ė	(in)	NOT USED
- 50		\""	1101 0020

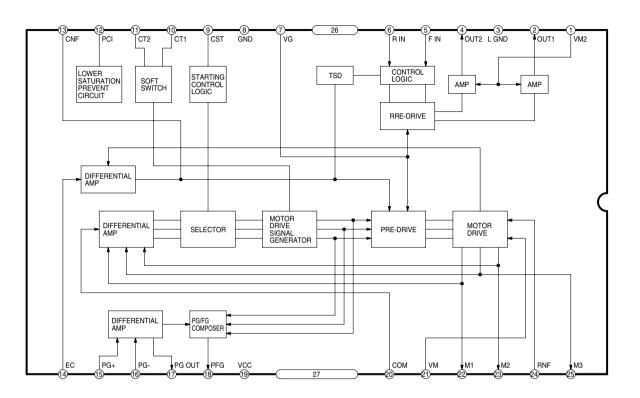
Pin No.	I/O	Signal Name	Description
51	1	LINE_SD_L	TV SIGNAL(L)
52	-	(CV_OUT)	NOT USED
53	Τ	VDD_OSD	VDD (+5V)
54	-	HLF	NOT USED
55	-	V_HOLD	NOT USED
56	Τ	CV_IN(EDS)	COMPOSITE VIDEO
57	-	NUA	NOT USED
58	Ι	OSD_H	OSD H-SYNC
59	Ι	OSD_V	OSD V-SYNC
60	0	BLK_H	BLANKING PULSE
61	0	SP_MUTE_L	SPEAKER MUTE(L)
62	0	В	OSD-B
63	0	G	OSD-G
64	0	R	OSD-R
65	-		NOT USED
66	-		NOT USED
67	-		NOT USED
68	-	SAP/MAIN	NOT USED
69	-	MONO/MTS	NOT USED
70	-		NOT USED
71	0	IIC_CLK	I2C SERIAL CLOCK
72	-	IIC DAT	I2C SERIAL DATA
73	-	TUNING H/(750KHz)	TUNER(H)/VV(L)
74	-	CAP_F/R	CAPSTAN MOTOR REVERSE(H)/FORWARD(L
75	-	(out-L)	NOT USED
76		CAP EC PWM	CAPSTAN ERROR
77	_	CYL_EC_PWM	CYLINDER ERROR
	-		
78 79	<u>                                     </u>	P_DOWN_L	POWER DOWN(L) SUPLLY REEL PULSE
		S_REEL	
80	1	T_REEL	TAKEUP REEL PULSE
81	-	P_ON_H	POWER ON(H)
82	-	UNLD_H	LOADING MOTOR REVERSE(H)
83		LOAD_H	LOADING MOTOR FORWARD(H)
84		EX_FF/REW_L	FF/REW(L)
85	_	(in)	NOT USED
86	-	C_FG_OUT	CAPSTAN FG
87	1	C_FG_IN	CAPSTAN FG
88	-	AVSS_AMP	GROUND
89	-	(in)	NOT USED
90	-	Y_PFG_IN	CYLINDER PG/FG
91	-	V_REF_OUT	V-REF
92	1	V_REF_IN	V-REF
93	-		NOT USED
94	-	CTL-	CONTROL PULSE(-)
95	1/0	CTL+	CONTROL PULSE(+)
96	-	CTL_AMP_REF	V-REF
97	0	CTL_OUT	PB CONTROL PULSE
98	Ι	AVDD_AMP	VDD (+5V)
99	Ι	AVDD_AD	VDD (+5V)

OVER CURRENT DETECT(H)

100 I OVER\_CUR\_H

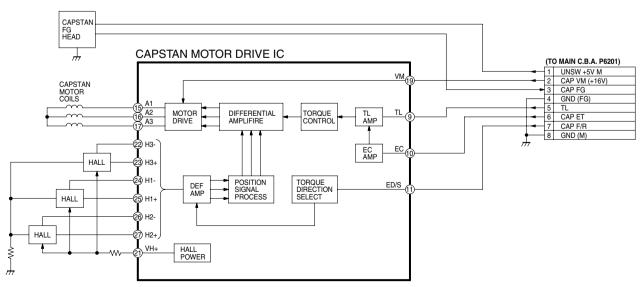
## IC6201 CYLINDER/LOADING MOTOR DRIVE IC- DETAIL BLOCK DIAGRAM

NOTE:

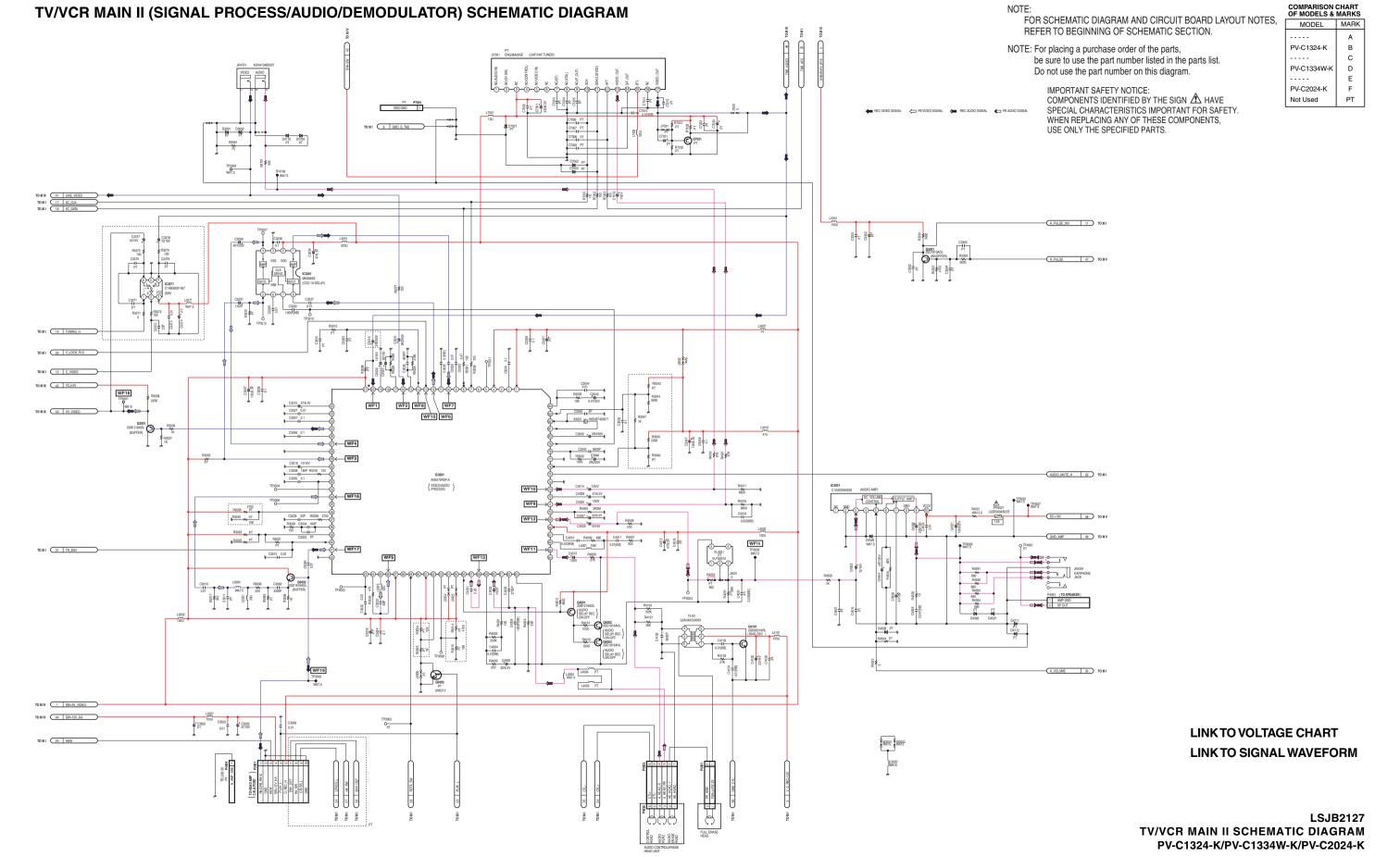


### **CAPSTAN ASS'Y**

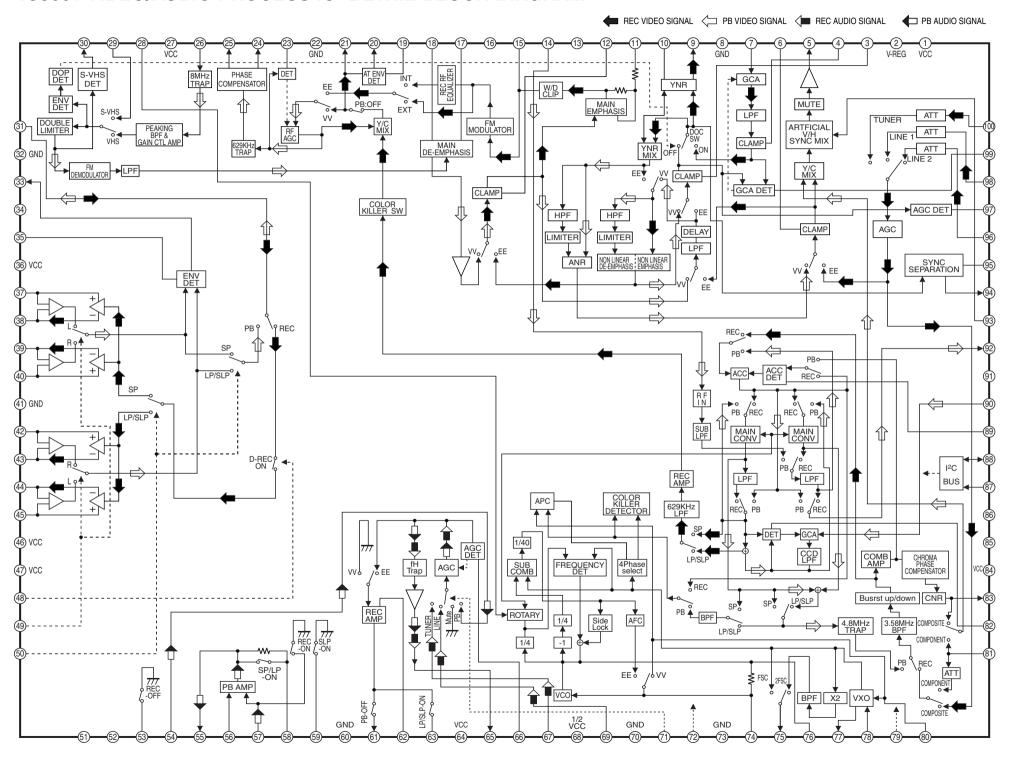
NOTE: CAPSTAN ASS'Y (REF. NO. 37) IS SUPPLIED AS A UNIT ONLY.

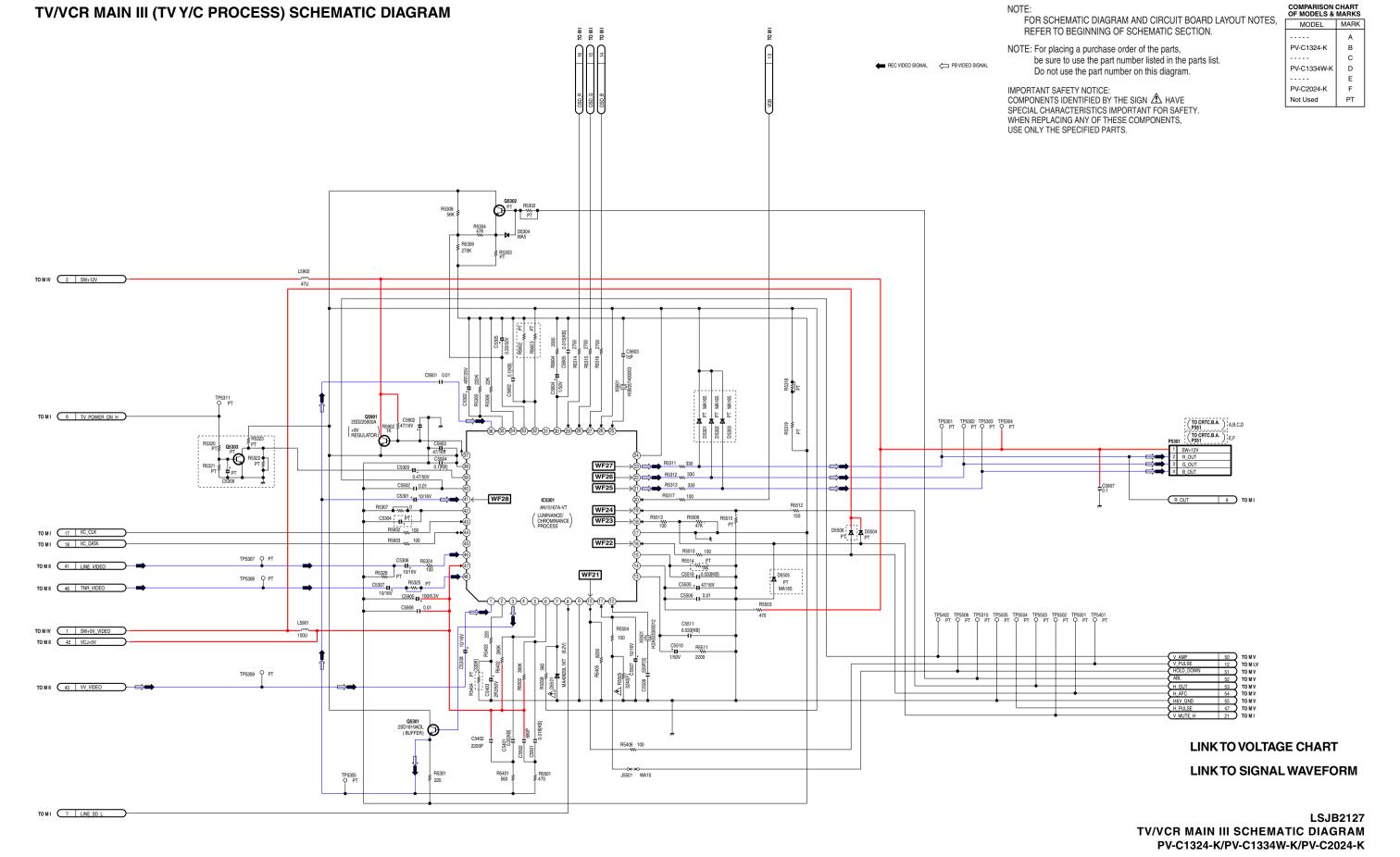


LSJB2127 I/O CHART OF IC6001/IC6201 DETAILBLOCK DIAGRAM PV-C1324-K/PV-C1334W-K/PV-C2024-K

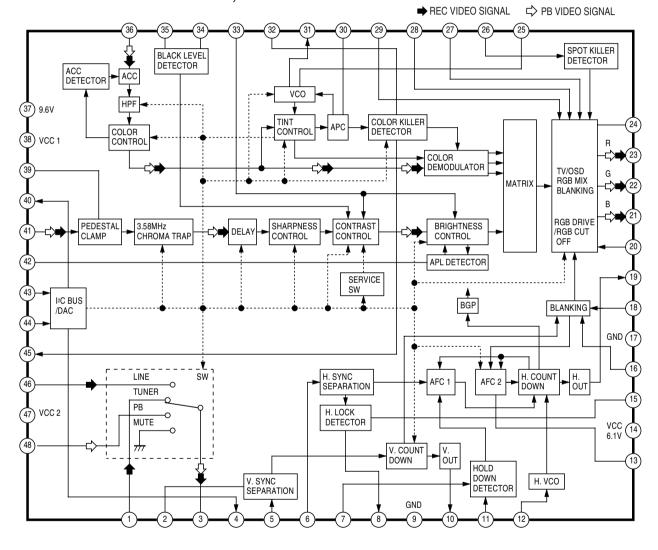


## IC3001 VIDEO/AUDIO PROCESS IC- DETAIL BLOCK DIAGRAM





# IC5301 LUMINANCE/CHROMINANCE PROCESS IC-DETAIL BLOCK DIAGRAM, AN5367FB



## TV/VCR MAIN IV (POWER SUPPLY) SCHEMATIC DIAGRAM

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 4A 125/250V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME
TYPE 4A 125/250V

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 1.6A 125/250V FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'T INCENDIE N'I UTILISERQUE DES FUSIBLE DE MÉME TYPE 1.6A 125/250V

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

NOTE:

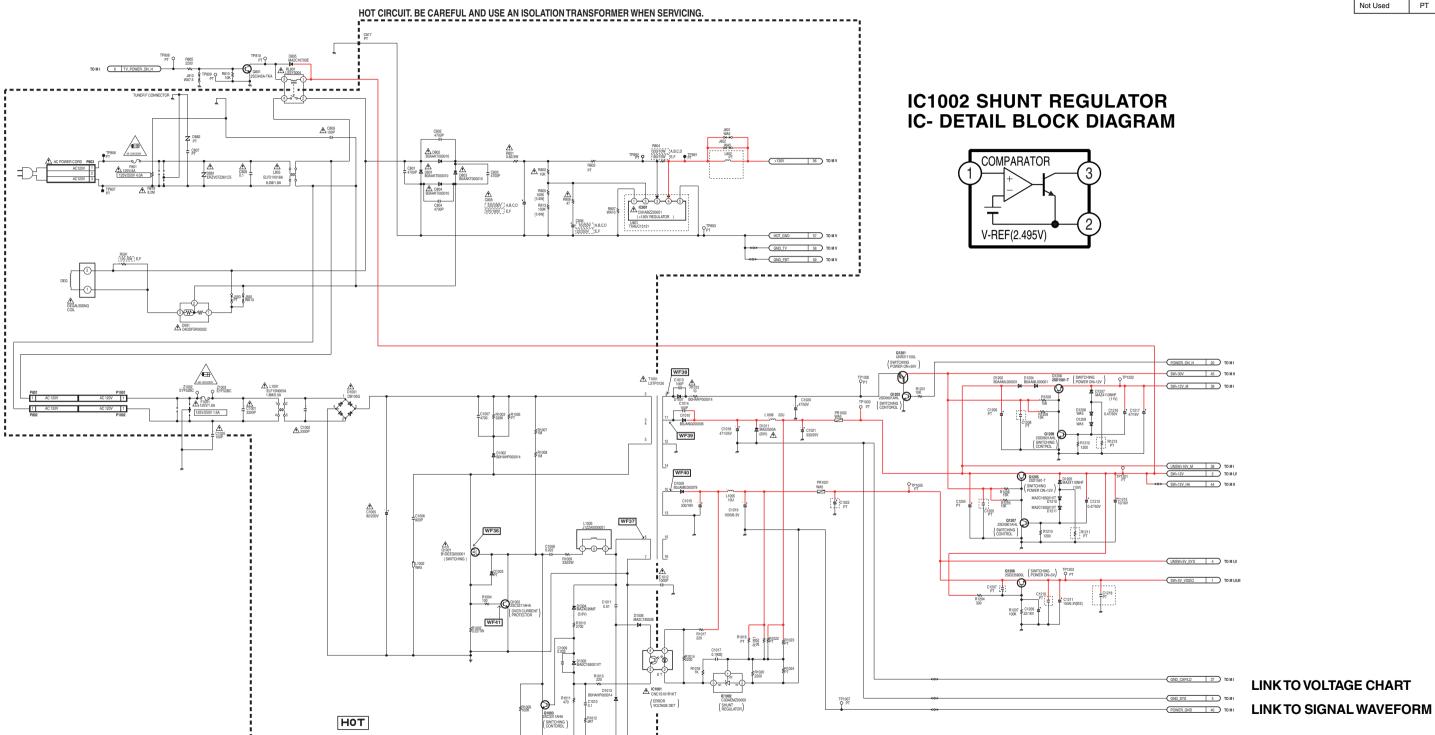
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram. OF MODELS & MARKS

MODEL MARK

---- A
PV-C1324-K B
---- C
PV-C1334W-K D
---- E
PV-C2024-K F
Not Used PT

COMPARISON CHART

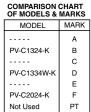


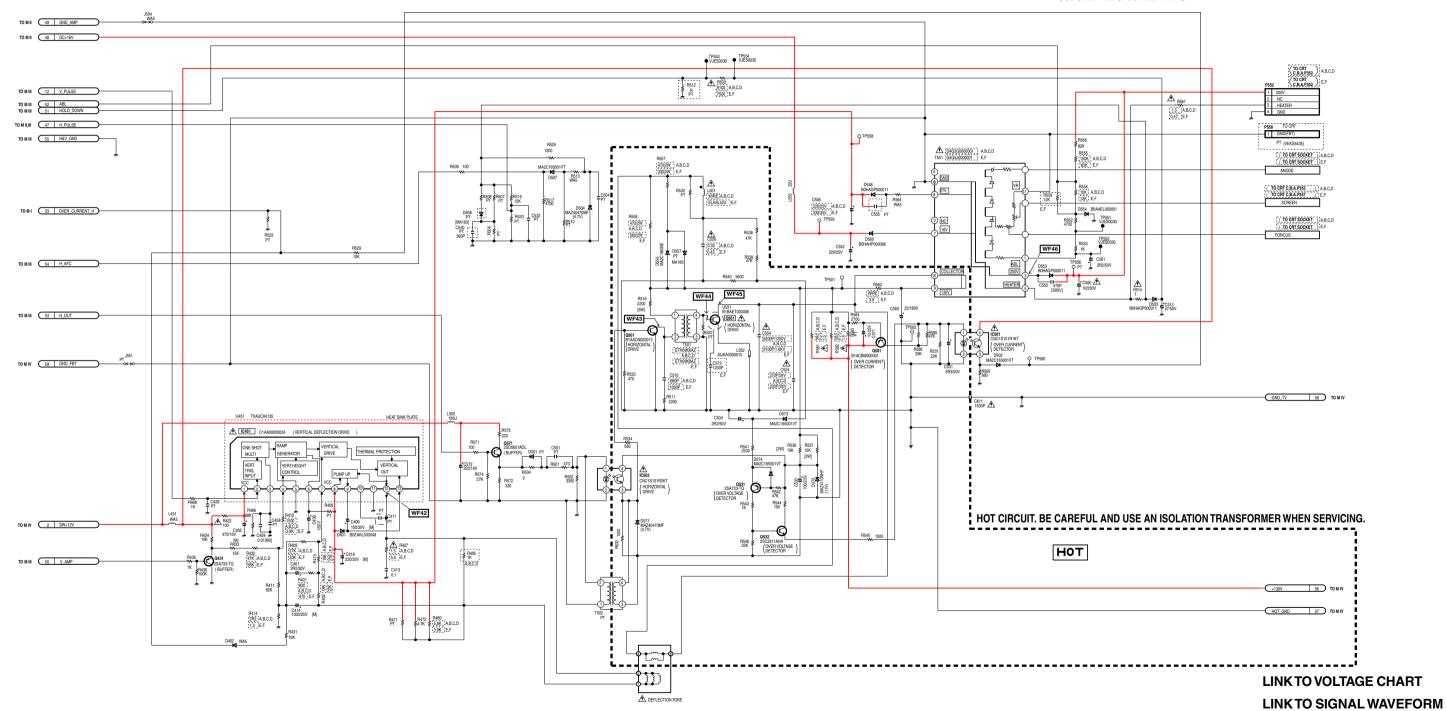
NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

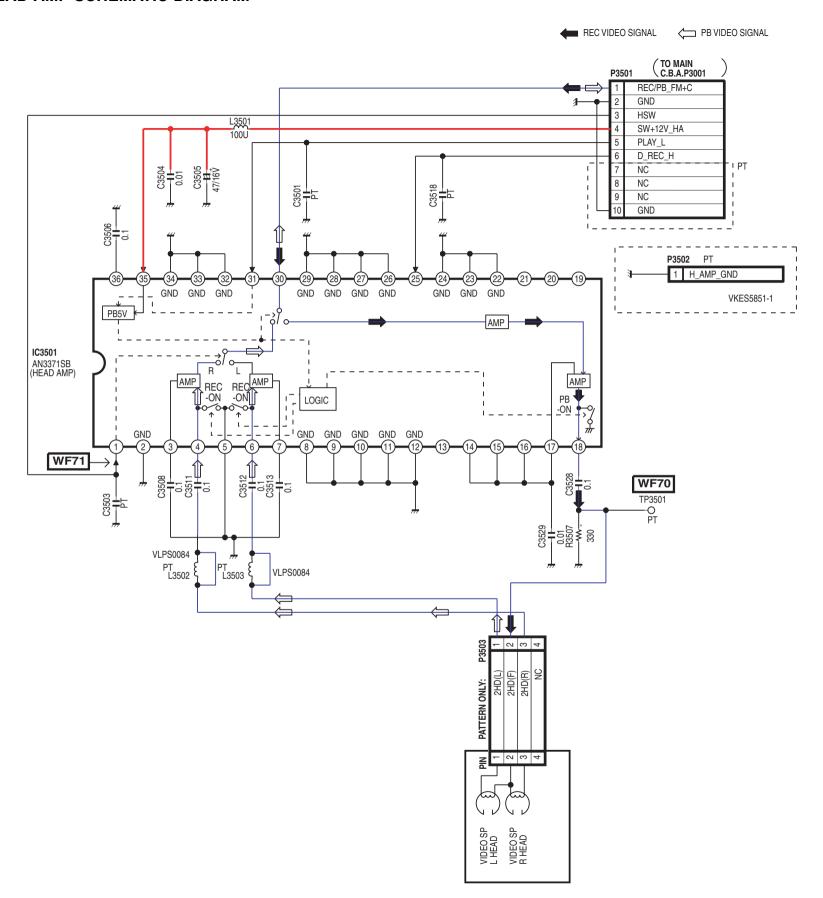
NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.





### **HEAD AMP SCHEMATIC DIAGRAM**



NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

> LINKTO VOLTAGE CHART LINKTO SIGNAL WAVEFORM

LSJB2128 HEAD AMP SCHEMATIC DIAGRAM PV-C1324-K/PV-C1334W-K/PV-C2024-K

IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED BY THE SIGN A HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

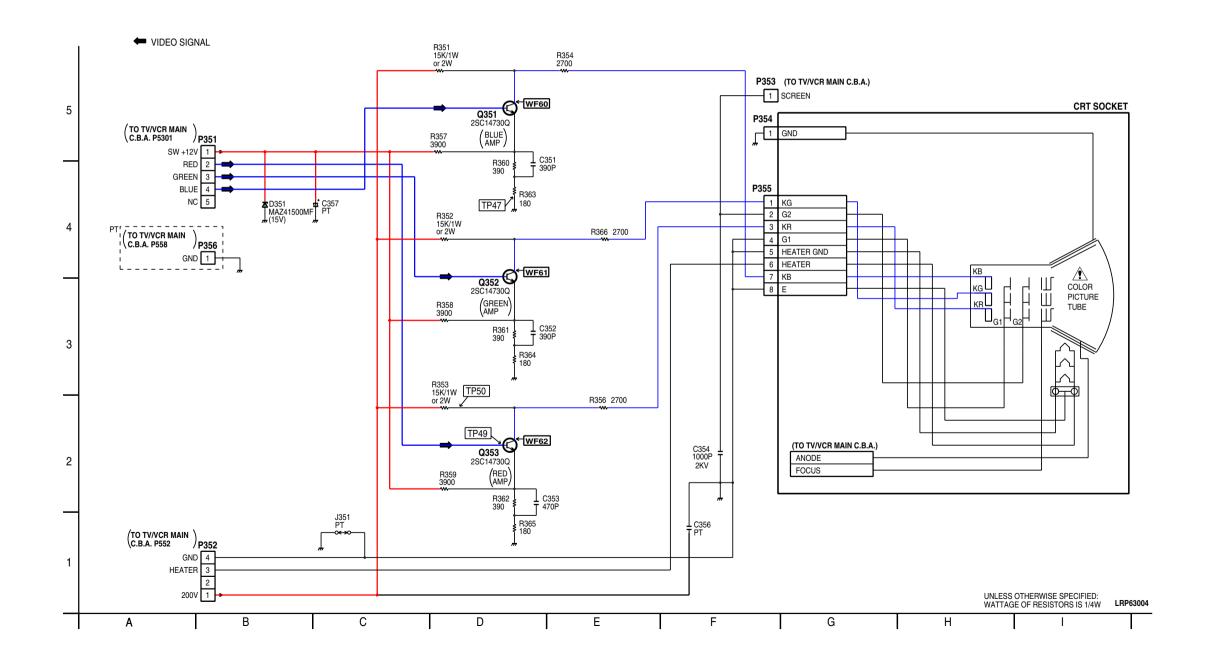
NOTE: A HAVE FC DR SAFETY. RF

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

OF MODELS &	MARKS
MODEL	MARK
	Α
PV-C1324-K	В
	С
PV-C1334W-K	D
	Е
PV-C2024-K	F
Not Used	PT

COMPARISON CHART



LINK TO VOLTAGE CHART
LINK TO SIGNAL WAVEFORM

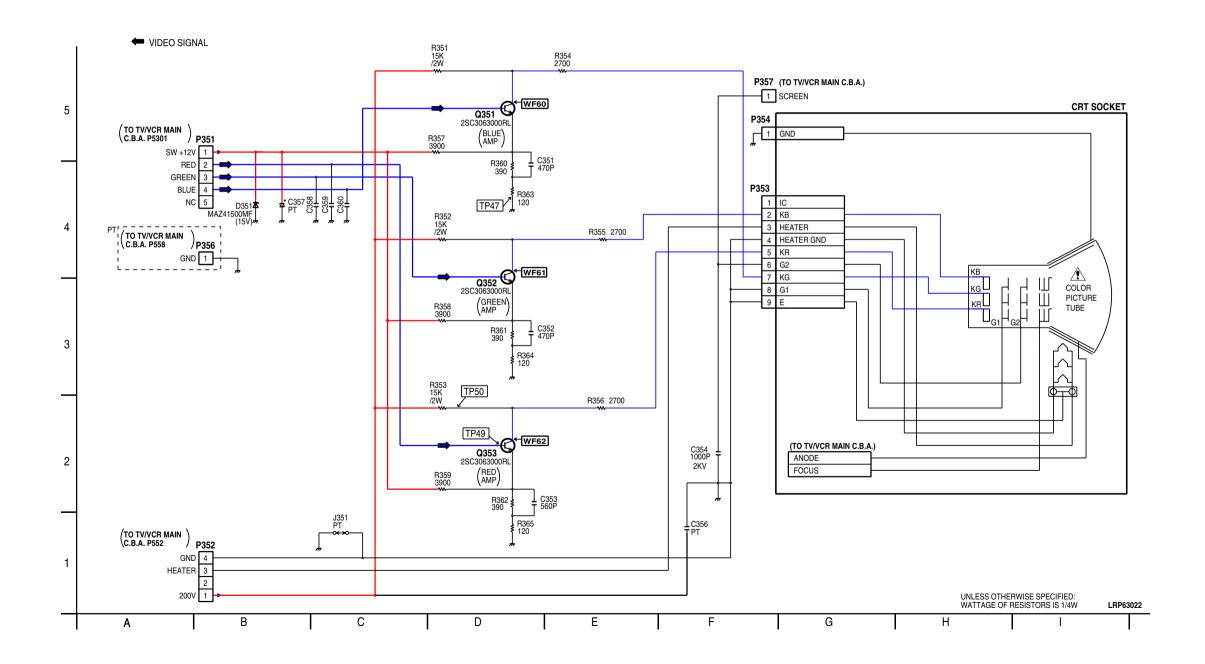
CRT SCHEMATIC DIAGRAM PV-C1324-K/PV-C1334W-K

IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED BY THE SIGN A HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

COMPARISON OF MODELS &	
MODEL	MARK
	Α
PV-C1324-K	В
	С
PV-C1334W-K	D
	Е
PV-C2024-K	F
Not Used	PT



LINK TO VOLTAGE CHART **LINK TO SIGNAL WAVEFORM** 

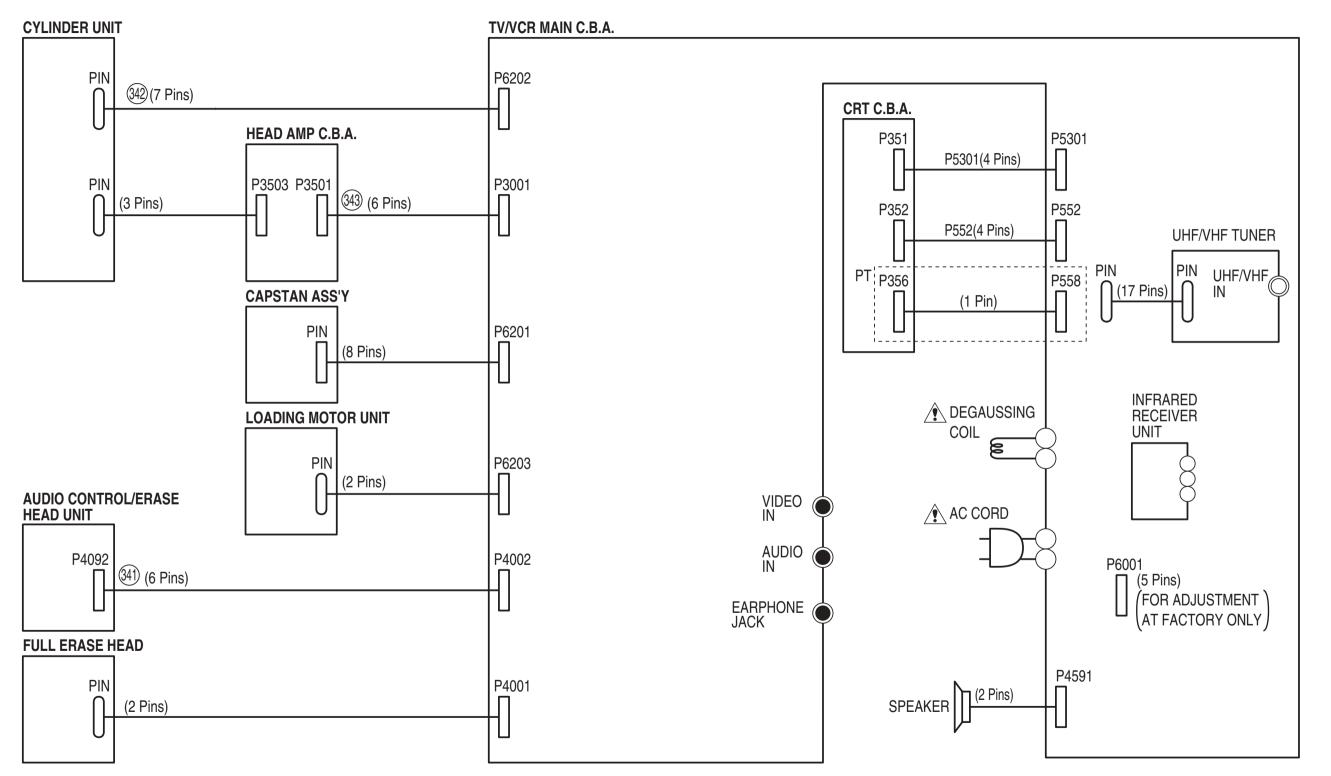
IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED BY THE SIGN A HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

COMPARISON CHART OF MODELS & MARKS MODEL MARK PV-C1324-K С PV-C1334W-F D Е PV-C2024-K PT

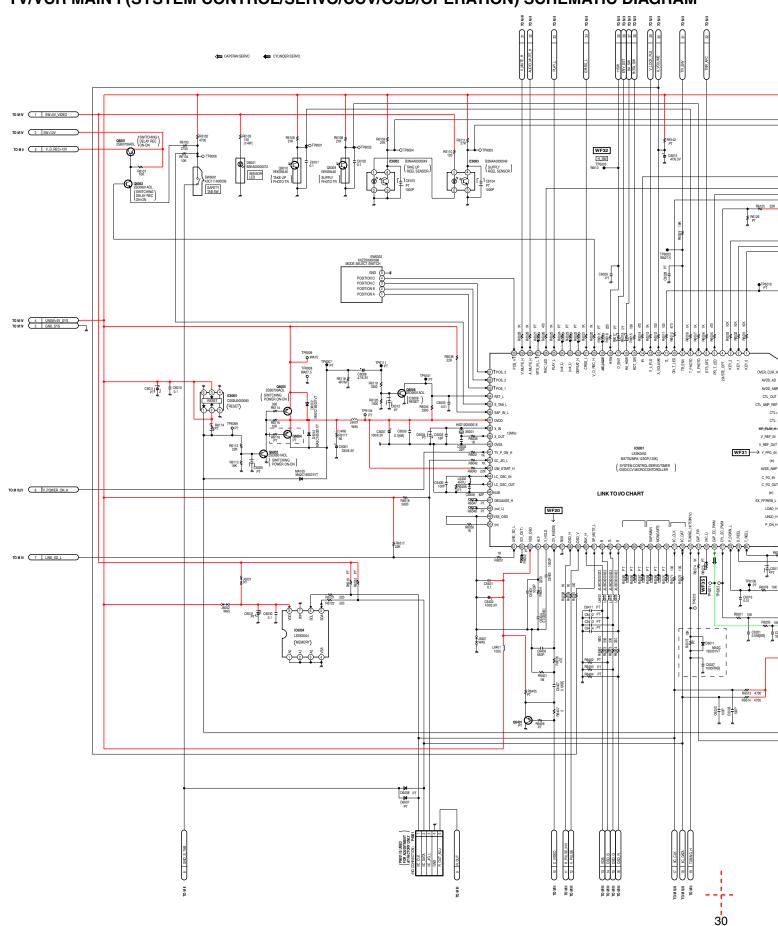
Not Used



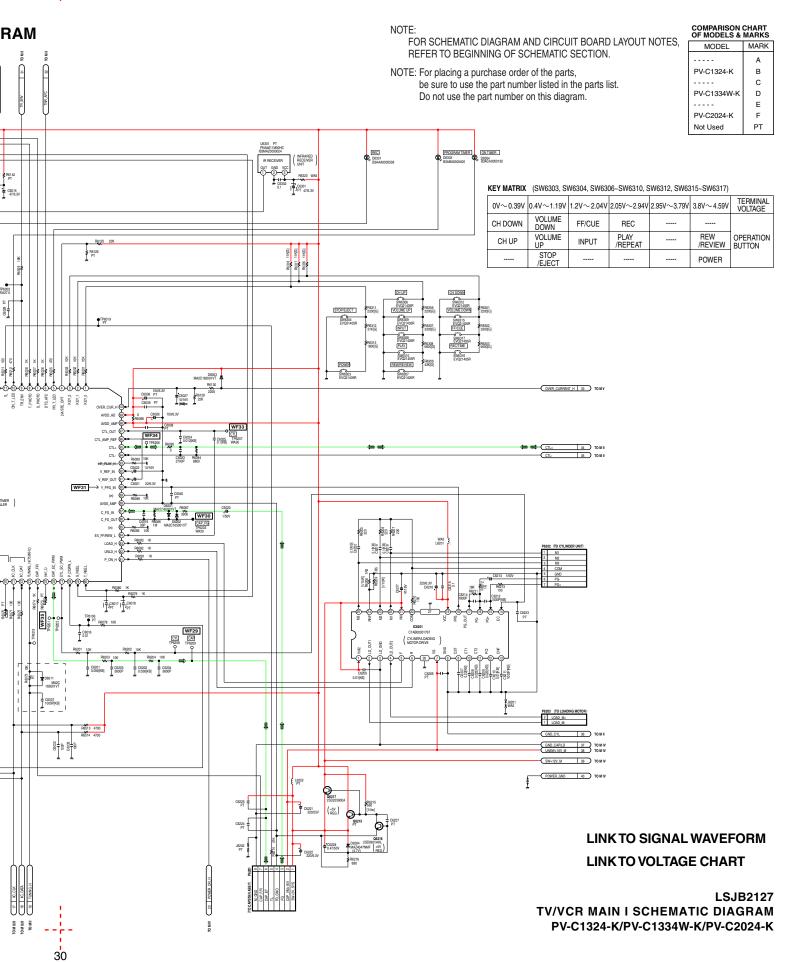
## 8.2. TV/VCR MAIN SCHEMATIC DIAGRAM

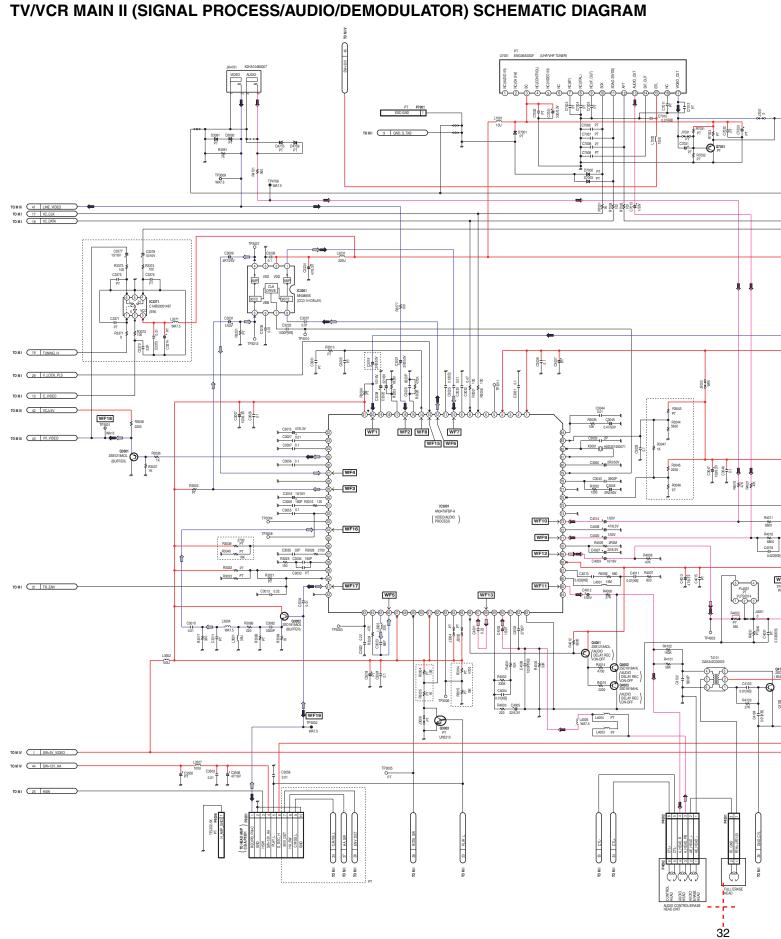


## TV/VCR MAIN I (SYSTEM CONTROL/SERVO/CCV/OSD/OPERATION) SCHEMATIC DIAGRAM











32



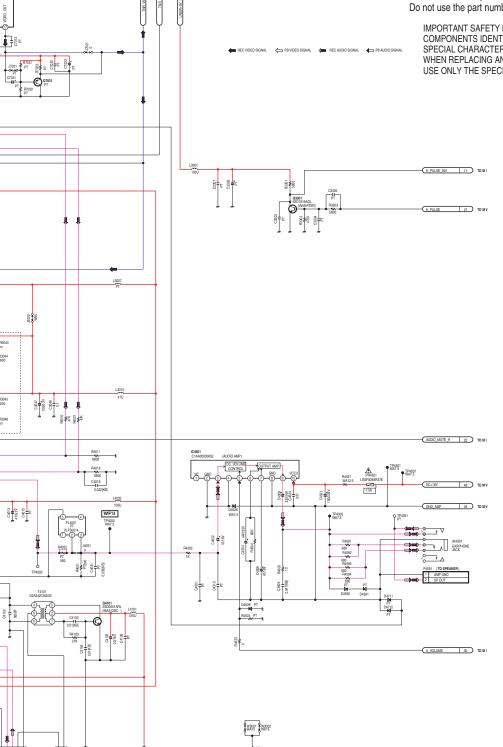
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

#### COMPARISON CHART OF MODELS & MARKS

oobo		
MODEL	MARK	
	Α	
PV-C1324-K	В	
	С	
PV-C1334W-K	D	
	Е	
PV-C2024-K	F	
Not Used	PT	

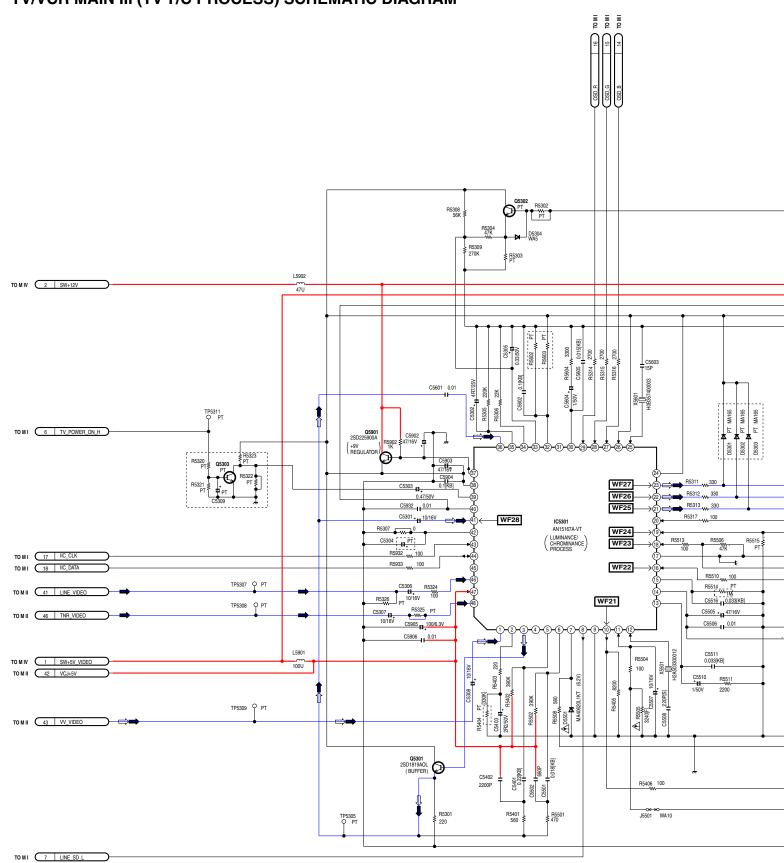


LINK TO VOLTAGE CHART
LINK TO SIGNAL WAVEFORM

LSJB2127 TV/VCR MAIN II SCHEMATIC DIAGRAM PV-C1324-K/PV-C1334W-K/PV-C2024-K

# ---

## TV/VCR MAIN III (TV Y/C PROCESS) SCHEMATIC DIAGRAM





34



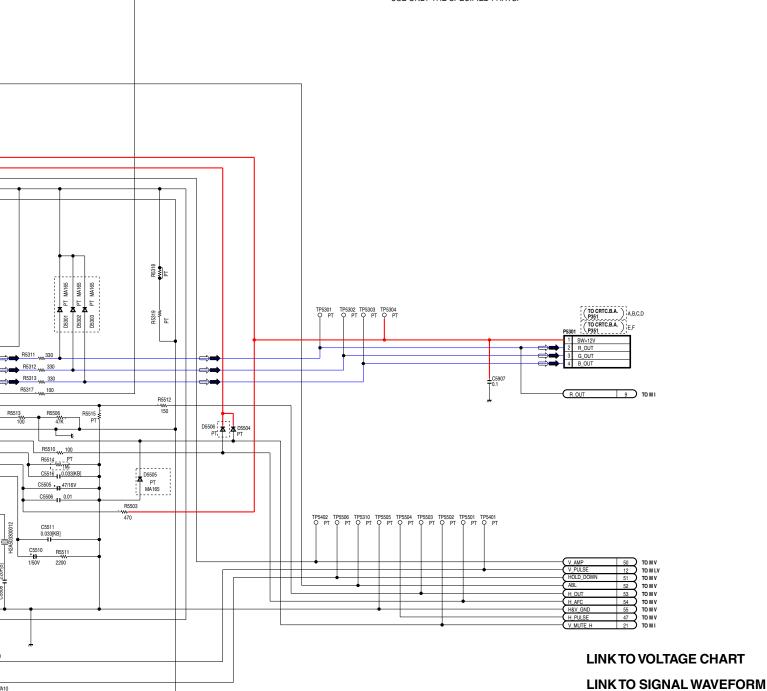
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

#### COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
	Α
PV-C1324-K	В
	С
PV-C1334W-K	D
	E
PV-C2024-K	F
Not Used	PT



LSJB2127 TV/VCR MAIN III SCHEMATIC DIAGRAM PV-C1324-K/PV-C1334W-K/PV-C2024-K



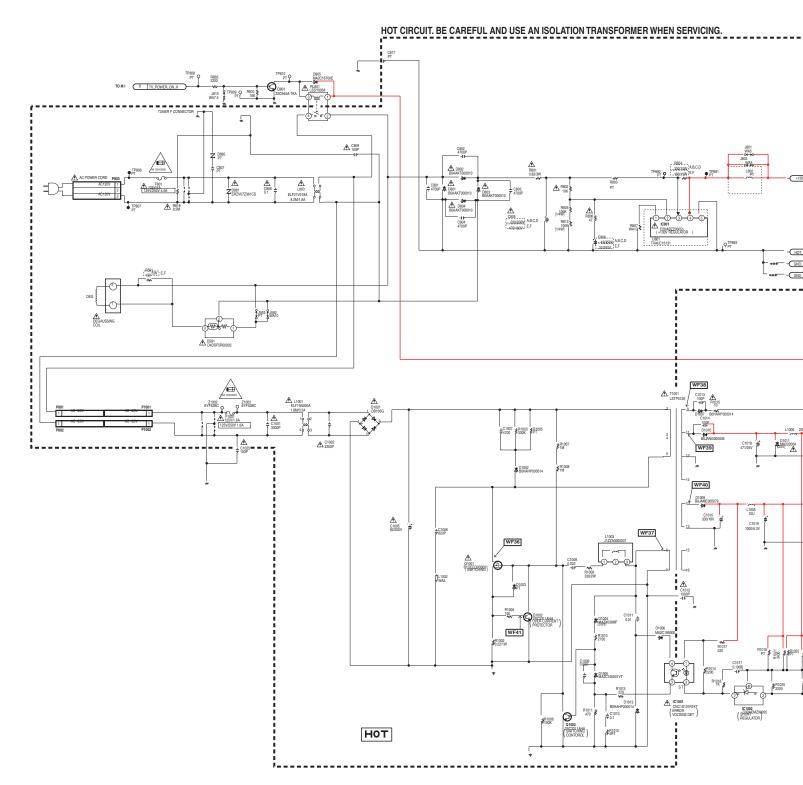
## TV/VCR MAIN IV (POWER SUPPLY) SCHEMATIC DIAGRAM

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 4A 125/250V FUSE.

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME 4A 125/250V TYPE 4A 125/250V

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 1.6A 125/250V FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'T INCENDIE N'I UTILISERQUE DES FUSIBLE DE MÉME TYPE 1.6A 125/250V

**IMPORT** COMPO SPECIAL WHEN F USE ON





ISE. SQUES IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

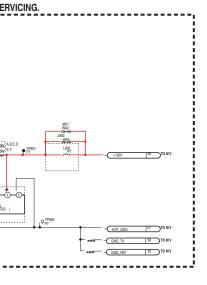
#### NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

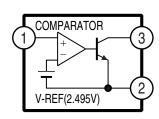
NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

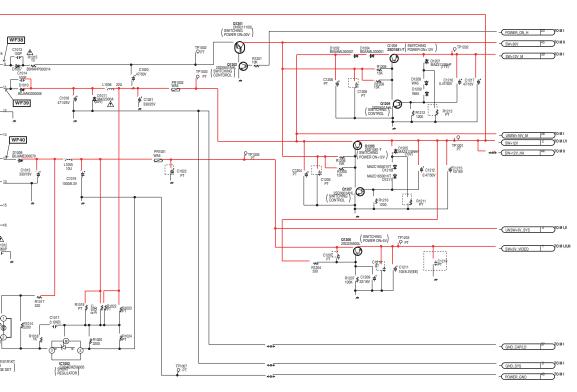
#### COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
	Α
PV-C1324-K	В
	С
PV-C1334W-K	D
	E
PV-C2024-K	F
Not Used	PT



# IC1002 SHUNT REGULATOR IC- DETAIL BLOCK DIAGRAM

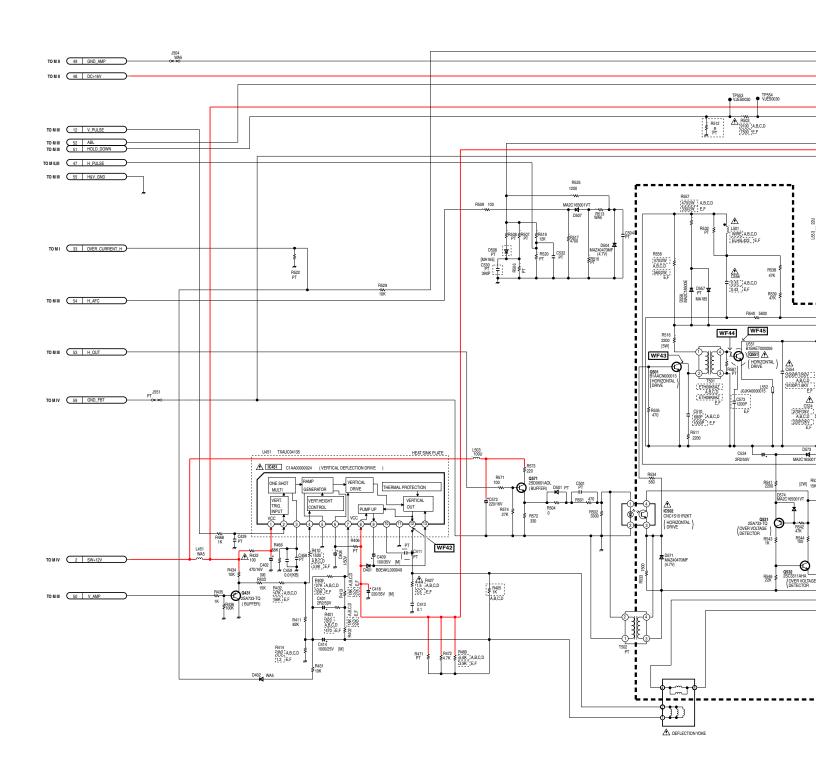




LINK TO VOLTAGE CHART
LINK TO SIGNAL WAVEFORM

# -----

## TV/VCR MAIN V (TV) SCHEMATIC DIAGRAM







#### NOTE:

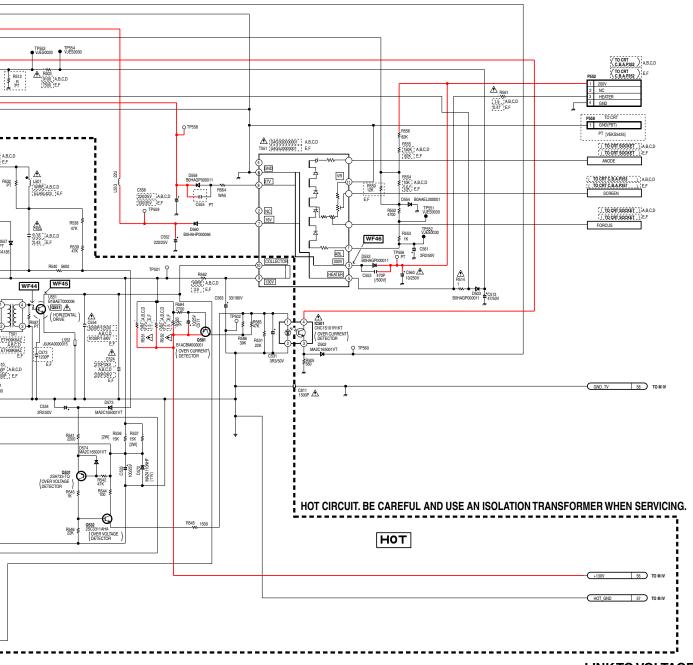
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

#### COMPARISON CHART

OF WODELS &	OF WODELS & WARKS		
MODEL	MARK		
	Α		
PV-C1324-K	В		
	С		
PV-C1334W-K	D		
	E		
PV-C2024-K	F		
Not Used	PT		



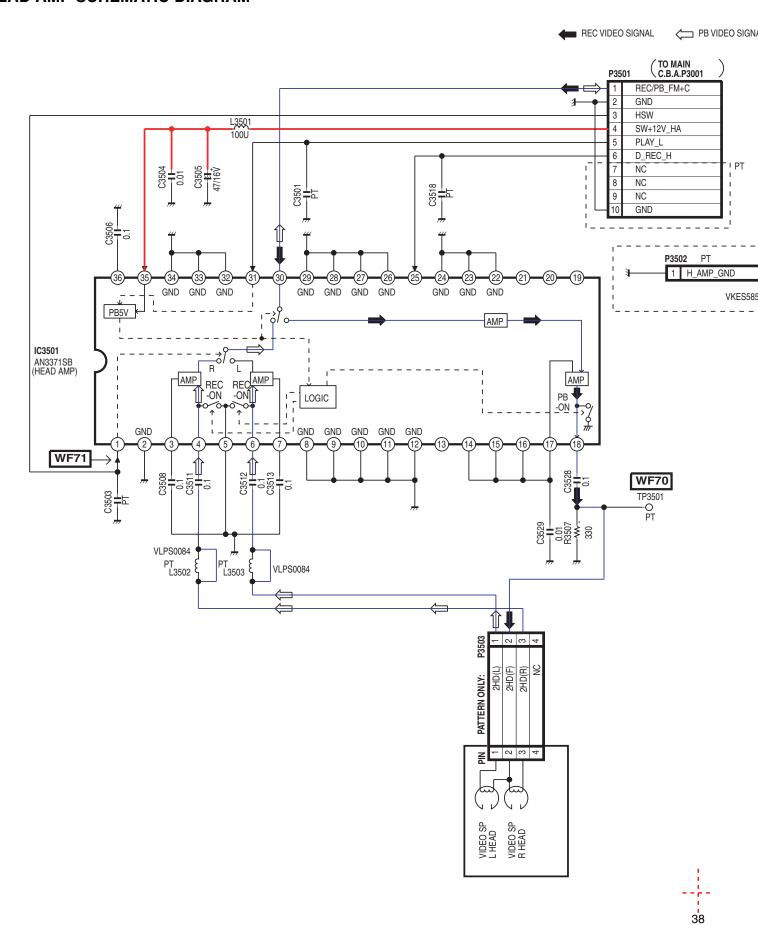
LINK TO VOLTAGE CHART
LINK TO SIGNAL WAVEFORM



## 8.3. HEAD AMP SCHEMATIC DIAGRAM



### **HEAD AMP SCHEMATIC DIAGRAM**

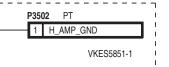




NAL PB VIDEO SIGNAL

(TO MAIN
C.B.A.P3001

REC/PB\_FM+C
GND
HSW
SW+12V\_HA
PLAY\_L
D\_REC\_H
NC
NC
I
GND



F7501 --O PT NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

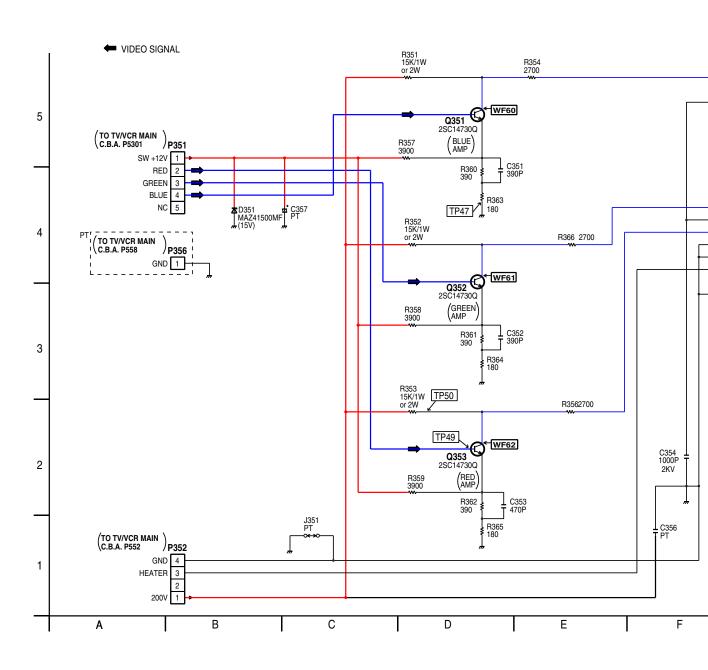
> LINK TO VOLTAGE CHART LINK TO SIGNAL WAVEFORM

LSJB2128 HEAD AMP SCHEMATIC DIAGRAM PV-C1324-K/PV-C1334W-K/PV-C2024-K

## 8.4. CRT SCHEMATIC DIAGRAM (Models: PV-C1324-K/PV-C1334W-K)



CRT SCHEMATIC DIAGRAM (A, B, C, D)





IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

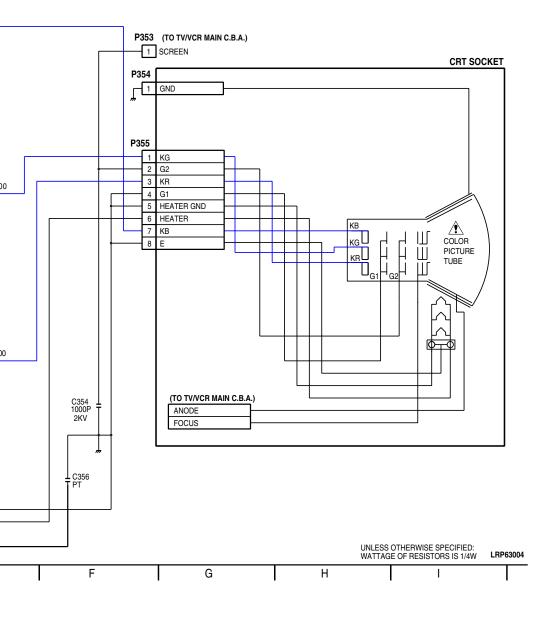
#### NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

#### COMPARISON CHART OF MODELS & MARKS

0obo u	
MODEL	MARK
	Α
PV-C1324-K	В
	С
PV-C1334W-K	D
	Е
PV-C2024-K	F
Not Used	PT



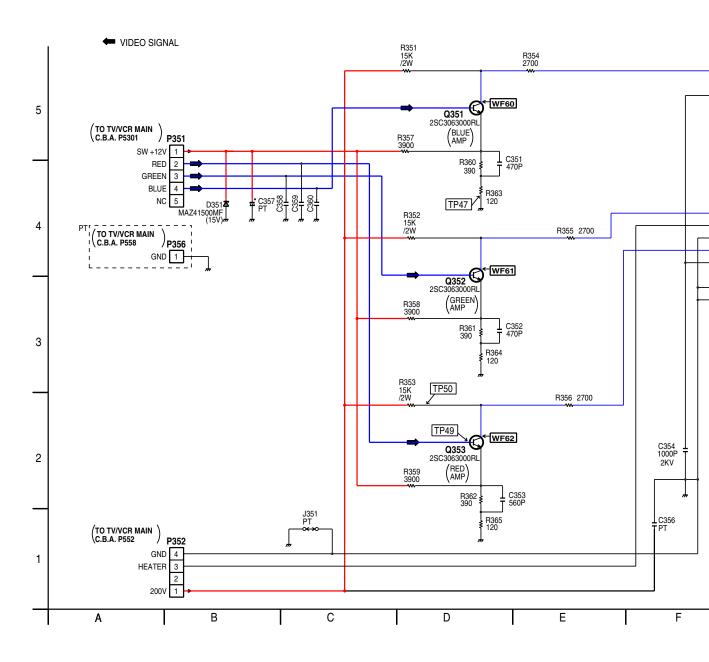
LINKTO VOLTAGE CHART
LINKTO SIGNAL WAVEFORM

CRT SCHEMATIC DIAGRAM PV-C1324-K/PV-C1334W-K

## 8.5. CRT SCHEMATIC DIAGRAM (Model:PV-C2024-K)



## **CRT SCHEMATIC DIAGRAM (E, F)**





IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

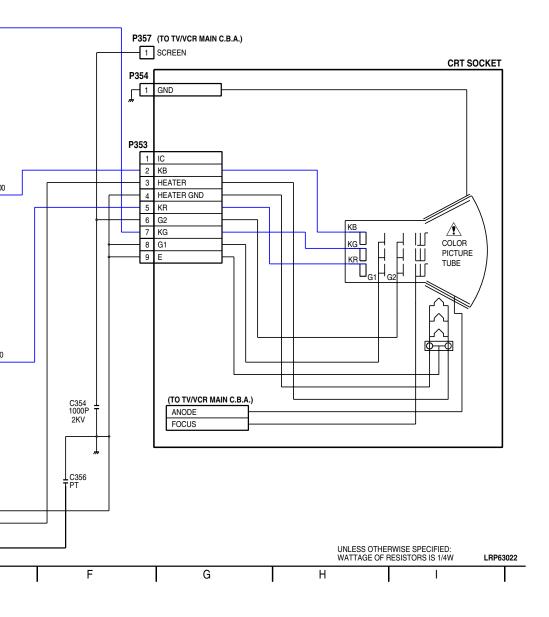
#### NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

#### COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
	Α
PV-C1324-K	В
	С
PV-C1334W-K	D
	Е
PV-C2024-K	F
Not Used	PT



LINKTO VOLTAGE CHART LINKTO SIGNAL WAVEFORM

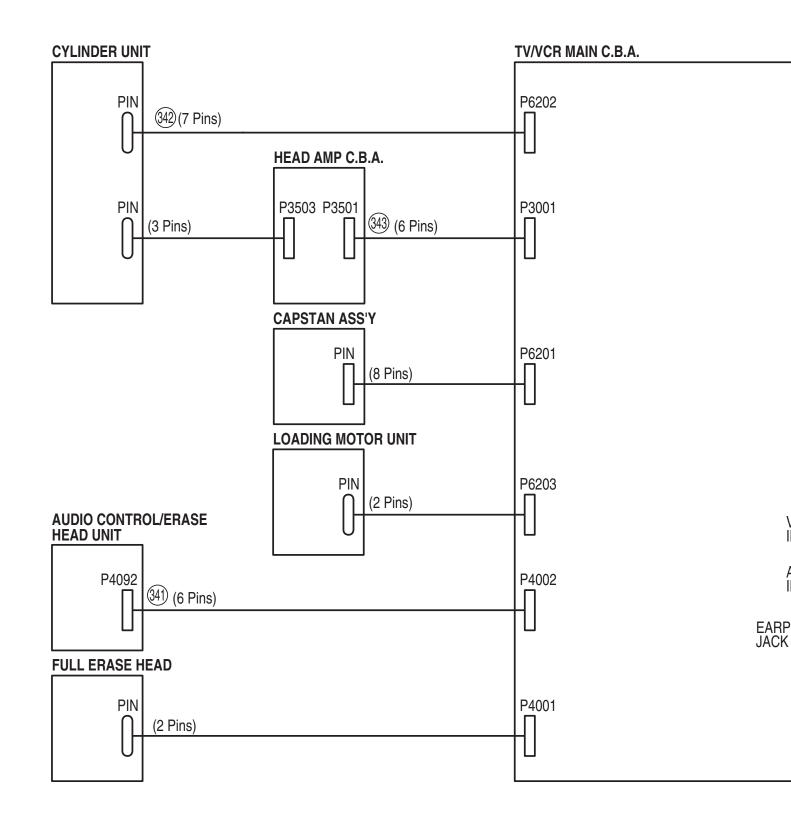
CRT SCHEMATIC DIAGRAM PV-C2024-K



## 8.6. INTERCONNECTION SCHEMATIC DIAGRAM



### INTERCONNECTION SCHEMATIC DIAGRAM





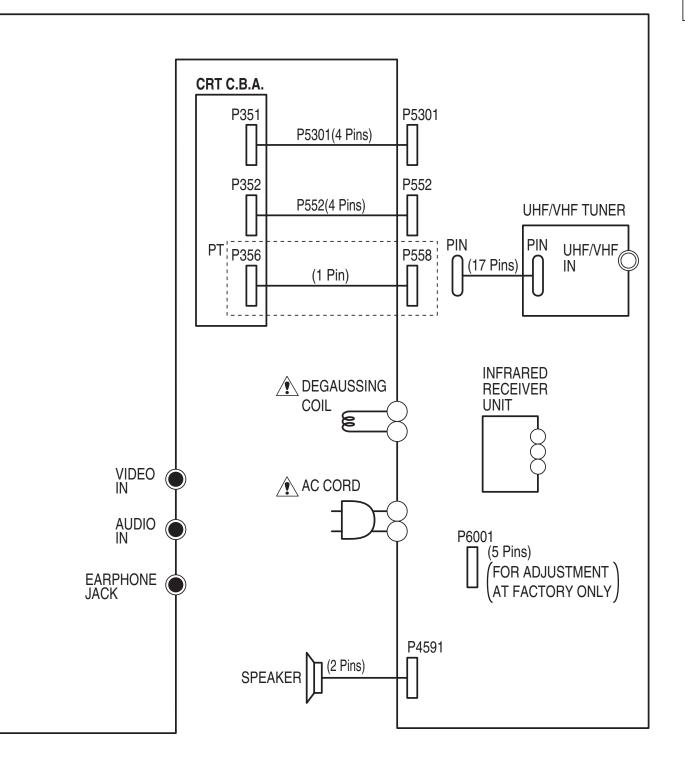
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

### NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

#### COMPARISON CHART OF MODELS & MARKS

O. MODELO G	MAINO
MODEL	MARK
	Α
PV-C1324-K	В
	С
PV-C1334W-K	D
	Е
PV-C2024-K	F
Not Used	PT



### TV/VCR MAIN C.B.A. (POWER SUPPLY/VIDEO/AUDIO SECTION)

TV/VC	RMA	IN C	.B.A. (	POWI	EF
MODE	STOP		MODE	STOP	
PIN NO.			PIN NO.		
IC451			16	3.1	
1	10.2		17	2.3	
2	3.9		18		
3	5.1		19	2.6	
4	6.2		20	3.1	
5	0		21	5.0	
6	5.1		22	2.0	
7	4.6		23	2.6	
8	27.2		24	2.3	l
9	2.3		25	2.0	
10	1.2		26	2.5	
11	0		27	2.0	
12	14.7		28	0	
13	27.7		29	1.9	
IC501			30	1.8	
1	0		31	2.0	
2	0		32	2.4	ŀ
3	0		33	2.0	
4	12.0		34	2.8	
IC502	12.0		35		l
1	0		36	2.5	
2	0.5		37	0.1	
3	2.1		38	4.1	ŀ
4	11.8		39	2.3	
IC801	11.0		40	3.5	
1	0		41	2.8	
2	131.8		42	0	
3	170.3		43	3.4	
4	130.3		44	2.6	
5	0		45	2.6	
IC1001	•		46	2.6	
1	5.3		47	5.0	
2	4.4		48		
3	0.7		49	0.1	
4	2.0		50		
IC1002	2.0		51	5.0	
1	2.5		52	2.5	
2	0		53	2.5	
3	4.1		54	1.8	
IC3001	7.1		55	2.1	
1	5.0		56	4.5	
2	3.4		57	2.6	
3	0.4		58	2.7	
4	5.0		59	2.6	
5	2.7		60		
6	2.1		61	2.6 2.6	
7	5.2		62	0	l
8	5.2		63	0	
	2.2			U	
9			64		
10	2.8		65 66	2.6	
11	0.4		66 67	2.7	
12	2.8		67	2.7	
13	0		68	5.0	
14	0.4		69	2.7	
15	1.7	l	70	2.2	I

MODE	STOP	MC
PIN NO.		PIN
71	2.6	
72	2.6	
73	2.6	
74	0	
75	0	
76	3.2	
77	0.2	
78	2.2	
79	3.0	
	2.2	
80		
81	2.6	
82	2.8	<u> </u>
83	2.6	
84	3.8	
IC3201		
1	2.8	
2	5.0	;
3	0	
4	2.9	
5	3.0	
6	-2.6	,
7	2.2	
8	2.9	
IC3371		
1	0	
2	3.2	
3	5.2	
4	1.5	
-		
5	0	
6	1.5	<u> </u>
IC4501		<u> </u>
1		<u> </u>
2	0	
3	6.4	<u> </u>
4	0	<u> </u>
5	1.9	
6	5.9	Q
7	5.9	
8	0	
9	6.0	
10	12.6	Q
IC5301		
1	2.7	
2	3.0	
3	3.8	Q
4		
5	2.1	
6	2.2	
7	6.1	Q
8	0.1	L
9		-
	0	-
10	4.0	⊢_
11	5.2	Q
12	2.4	

13 4.2

9         2.1           0         0           1         3.6           2         3.4           3         3.6           4         9.1           5         3.8           6         9.0           7         0           8         0           9         0           0         5.8           1            2         3.6           3         6.6           4         8.1           5         5.2           6         4.3           7         9.7           8         9.0           9         2.1           0         2.8           1         2.4           2         0           3         5.2           4         5.3           5            6         2.7           7         5.0           8         0.3           C         0           B         0.7           Q1205           E         0           C         0	10	SECT	ΓΙΟΝ	)	
NO.   PINNO.   B	)F	STOP		\MODE	STOP
B   O   Q571   C   10.7		0101			0101
5         4.4           6         0.7           7         0           8         0.3           9         2.1           0         0           1         3.6           2         3.4           3         3.6           4         9.1           5         3.8           6         9.0           7         0           8         0           9         0           C         176.3           B         0.8           Q1001         E           B         0.8           Q1001         E           B         0.8           Q1001         E           B         0.3           C         176.3           B         0.3           Q1002         E           E         0           C         176.3           B         0.3           Q1002         E           E         0           C         0.3           B         0.7           Q1003         E           E		0.0			_
66         0.7           7         0           8         0.3           9         2.1           0         0           1         3.6           2         3.4           3         3.6           4         9.1           5         3.8           6         9.0           7         0           8         0           9         0           C         176.3           B         0.3           Q1001         0           8         0           9         0           C         176.3           B         0.3           Q1001         0           8         0           9         0           C         176.3           B         0.3           Q1002         0           E         0           G         0.3           B         0.3           G         0.3           B         0.4           Q1201         0           0         2.8           1         2.4					0
7         0         C         10.7           8         0.3         B         2.1           99         2.1         Q581         E         130.0           1         3.6         C         0         0         E         130.0         C         0         0         E         130.0         C         0					
8         0.3         B         2.1           9         2.1         Q581         C         0           1         3.6         C         0         0         E         130.0         C         0           2         3.4         B         130.5         G         0	6				
9         2.1           0         0           1         3.6           2         3.4           3         3.6           4         9.1           5         3.8           6         9.0           7         0           8         0           9         0           C         176.3           B         0.3           Q1001         0           B         0.8           Q1001         0           B         0.8           Q1001         0           B         0.8           Q1001         0           B         0.3           Q1002         0           C         176.3           B         0.3           Q1002         0           E         0           C         0.3           B         0.7           Q1003         0           E         0           Q12001         0           D         2.8           E         30.9           B         0           Q1202 <td></td> <td></td> <td></td> <td></td> <td>10.7</td>					10.7
0         0         0         E         130.0           1         3.6         C         0         0           2         3.4         B         130.5         0           3         3.6         Q801         E         0           4         9.1         E         0         0           5         3.8         C         12.0         0           6         9.0         C         176.3         0         0         0         0         0         0         176.3         0         0         0         0         0         0         176.3         0         0         0         0         0         0         176.3         0         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>8</td> <td>0.3</td> <td></td> <td>В</td> <td>2.1</td>	8	0.3		В	2.1
0         0         0         E         130.0           1         3.6         C         0         0           2         3.4         B         130.5         0           3         3.6         Q801         E         0           4         9.1         E         0         0           5         3.8         C         12.0         0           6         9.0         C         176.3         0         0         0         0         0         0         176.3         0         0         0         0         0         0         176.3         0         0         0         0         0         0         176.3         0         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>9</td> <td>2.1</td> <td></td> <td>Q581</td> <td></td>	9	2.1		Q581	
1       3.6         2       3.4         3       3.6         4       9.1         5       3.8         6       9.0         7       0         8       0         9       0         0       5.8         1          2       3.6         3       6.6         4       8.1         5       5.2         6       4.3         7       9.7         8       9.0         9       2.1         0       2.8         1       2.4         2       0         3       5.2         4       5.3         5       5.2         6       4.3         7       9.7         8       9.0         9       2.1         0       2.8         1       2.4         2       0         3       5.2         4       5.3         5          6       2.7         7       5.0					130.0
2       3.4       B       130.5         3       3.6       Q801       E       0         4       9.1       E       0       C       12.0         5       3.8       C       12.0       B       0.8       0         6       9.0       C       176.3       B       0.8       0       0       C       176.3       B       0.3       0       0       0       C       176.3       B       0.3       0        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0        0       0       0       0					
5         3.8         C         12.0           6         9.0         B         0.8           7         0         B         0.8           9         0         C         176.3           0         5.8         B         0.3           1          Q1002         C           2         3.6         E         0           3         6.6         C         0.3           4         8.1         B         0.7           5         5.2         G         Q1003           6         4.3         E         0           7         9.7         C         0.3           8         9.0         B         0.4           9         2.1         Q1201         Q1201           0         2.8         E         30.9         E         30.9           9         2.1         Q1201         E         30.9         E         0         Q1202           4         5.3         E         0         C         0         G         14.0         B         0         C         14.0         B         11.3         B         11.3	יי				
5         3.8         C         12.0           6         9.0         B         0.8           7         0         B         0.8           9         0         C         176.3           0         5.8         B         0.3           1          Q1002         C           2         3.6         E         0           3         6.6         C         0.3           4         8.1         B         0.7           5         5.2         G         Q1003           6         4.3         E         0           7         9.7         C         0.3           8         9.0         B         0.4           9         2.1         Q1201         Q1201           0         2.8         E         30.9         E         30.9           9         2.1         Q1201         E         30.9         E         0         Q1202           4         5.3         E         0         C         0         G         14.0         B         0         C         14.0         B         11.3         B         11.3					130.3
5         3.8         C         12.0           6         9.0         B         0.8           7         0         B         0.8           9         0         C         176.3           0         5.8         B         0.3           1          Q1002         C           2         3.6         E         0           3         6.6         C         0.3           4         8.1         B         0.7           5         5.2         G         Q1003           6         4.3         E         0           7         9.7         C         0.3           8         9.0         B         0.4           9         2.1         Q1201         Q1201           0         2.8         E         30.9         E         30.9           9         2.1         Q1201         E         30.9         E         0         Q1202           4         5.3         E         0         C         0         G         14.0         B         0         C         14.0         B         11.3         B         11.3	3				
66         9.0         B         0.8           7         0         B         0.8           99         0         C         176.3           8         0         E         0           99         0         C         176.3           8         0         C         176.3           B         0.3         B         0.3           Q1002         E         0         C           2         3.6         E         0           3         6.6         C         0.3           4         8.1         B         0.7           Q1003         E         0         C           6         4.3         E         0           7         9.7         B         0.4           Q1201         E         30.9           B         0.4         Q1201           C         30.9         B         0.4           Q1201         E         30.9           B         0         Q1202           C         0         C           G         0         C           C         0         C	4				
88         0         E         0           99         0         C         176.3           10         5.8         B         0.3           11          Q1002           22         3.6         E         0           33         6.6         C         0.3           44         8.1         B         0.7           55         5.2         Q1003         E           6         4.3         E         0           7         9.7         C         0.3           8         9.0         B         0.4           Q1201         E         30.9           9         2.1         Q1201         E           0         2.8         E         30.9         B         0.4           Q1201         E         30.9         B         0         11.3         0         0         0	5				12.0
88         0         E         0           99         0         C         176.3           10         5.8         B         0.3           11          Q1002           22         3.6         E         0           33         6.6         C         0.3           44         8.1         B         0.7           55         5.2         Q1003         E           6         4.3         E         0           7         9.7         C         0.3           8         9.0         B         0.4           Q1201         E         30.9           9         2.1         Q1201         E           0         2.8         E         30.9         B         0.4           Q1201         E         30.9         B         0         11.3         0         0         0	6	9.0		В	0.8
88         0         E         0           99         0         C         176.3           10         5.8         B         0.3           11          Q1002           22         3.6         E         0           33         6.6         C         0.3           44         8.1         B         0.7           55         5.2         Q1003         E           6         4.3         E         0           7         9.7         C         0.3           8         9.0         B         0.4           Q1201         E         30.9           9         2.1         Q1201         E           0         2.8         E         30.9         B         0.4           Q1201         E         30.9         B         0         11.3         0         0         0	7	0		Q1001	
9         0         C         176.3           0         5.8         B         0.3           1          Q1002         E           2         3.6         C         0.3           3         6.6         C         0.3           4         8.1         B         0.7           5         5.2         Q1003         E           6         4.3         E         0           7         9.7         B         0.4           Q1201         E         30.9           B         0.4         Q1201           C         30.9         B         0.4           Q1201         E         30.9           C         30.9         B         0           Q1202         B         0         Q1202           4         5.3         E         0           5          G         C         0           6         2.7         G         Q1205         E         0           8         0.3         E         12.0         C         14.0         B         11.3           8         0.5         B	8	0			0
00         5.8           11            22         3.6           33         6.6           44         8.1           55         5.2           6         4.3           7         9.7           8         9.0           9         2.1           0         2.8           1         2.4           2         0           3         5.2           4         5.3           5            6         2.7           7         5.0           8         0.3           E         0           Q1202           4         5.3           5            6         2.7           7         5.0           8         0.3           E         12.0           C         14.0           B         11.3           B         11.3           B         11.3           B         6.0           C         76.0           B         6.0           C         76.0 <td></td> <td></td> <td></td> <td></td> <td></td>					
11        Q1002         22       3.6       E       0         33       6.6       C       0.3         44       8.1       B       0.7         55       5.2       Q1003       E         66       4.3       E       0         7       9.7       C       0.3         8       9.0       B       0.4         99       2.1       Q1201       E         00       2.8       E       30.9         C       0       B       0         Q1201       E       30.9       B         C       30.9       B       0         Q1202       E       0       Q1202         4       5.3       E       0         5        C       0       D         6       2.7       B       0.7       Q1202       D         8       0.3       E       12.0       C       14.0       D       B       11.3       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D<					
2       3.6         3       6.6         4       8.1         5       5.2         6       4.3         7       9.7         8       9.0         9       2.1         0       2.8         1       2.4         2       0         3       5.2         4       5.3         5          6       2.7         7       5.0         8       0.3         E       12.0         C       0         B       0.7         7       5.0         B       0.7         7       5.0         B       0.7         Q1205       B         B       0.7         Q1205       B         B       0.7         Q1206       E         C       0         B       11.3         Q1207       E         C       5.0         C       76.0         B       6.0         C       76.0         B       0.6	1				0.0
5         5.2           6         4.3           7         9.7           8         9.0           9         2.1           0         2.8           1         2.4           2         0           3         5.2           4         5.3           5            6         2.7           7         5.0           8         0.3           E         0           C         0           B         0.7           7         5.0           B         0.7           7         5.0           B         0.7           C         14.0           B         11.3           G         0           G         0           B         6.0           C         76.0           B         0.6           C         11.3           B         0.6           C         14.0           B         12.0           C         76.0           B         0           C         11.	0				$\vdash$
5         5.2           6         4.3           7         9.7           8         9.0           9         2.1           0         2.8           1         2.4           2         0           3         5.2           4         5.3           5            6         2.7           7         5.0           8         0.3           E         0           C         0           B         0.7           7         5.0           B         0.7           7         5.0           B         0.7           C         14.0           B         11.3           G         0           G         0           B         6.0           C         76.0           B         0.6           C         11.3           B         0.6           C         14.0           B         12.0           C         76.0           B         0           C         11.					
5         5.2           6         4.3           7         9.7           8         9.0           9         2.1           0         2.8           1         2.4           2         0           3         5.2           4         5.3           5            6         2.7           7         5.0           8         0.3           E         0           C         0           B         0.7           7         5.0           B         0.7           7         5.0           B         0.7           C         14.0           B         11.3           G         0           G         0           B         6.0           C         76.0           B         0.6           C         11.3           B         0.6           C         14.0           B         12.0           C         76.0           B         0           C         11.	:				
66       4.3         77       9.7         88       9.0         99       2.1         00       2.8         1       2.4         2       0         33       5.2         4       5.3         5          6       2.7         7       5.0         8       0.3         E       12.0         C       14.0         31       B       11.3         E       3.3       Q1206         C       14.0       B         31       B       6.0         C       0       C       5.0         B       6.0       C       5.0         B       6.0       C       11.3         B       6.0       C       11.3         B       0.6       C       11.3         B       0.6       C       14.0         B       0.6       C       11.3         B       0.6       C       14.0         B       0.6       C       14.0         B       0.6       C       14.0					0.7
66       4.3         77       9.7         88       9.0         99       2.1         00       2.8         1       2.4         2       0         33       5.2         4       5.3         5          6       2.7         7       5.0         8       0.3         E       12.0         C       14.0         31       B       11.3         E       3.3       Q1206         C       14.0       B         31       B       6.0         C       0       C       5.0         B       6.0       C       5.0         B       6.0       C       11.3         B       6.0       C       11.3         B       0.6       C       11.3         B       0.6       C       14.0         B       0.6       C       11.3         B       0.6       C       14.0         B       0.6       C       14.0         B       0.6       C       14.0	5	5.2		Q1003	
88       9.0         99       2.1         00       2.8         1       2.4         2       0         3       5.2         4       5.3         5          6       2.7         7       5.0         8       0.3         E       12.0         C       14.0         31       B         E       3.3         Q1205       B         8       0.3         C       14.0         B       11.3         E       5.0         C       5.0         B       6.0         Q1206       E         E       5.0         B       6.0         Q1207       E         C       76.0         B       0.6         C       11.3         B       0.6         Q1208       E         C       0         B       12.0         C       14.0         B       12.5         Q1208       E         C       1	6	4.3		Е	0
88       9.0         99       2.1         00       2.8         1       2.4         2       0         3       5.2         4       5.3         5          6       2.7         7       5.0         8       0.3         E       12.0         C       14.0         31       B         E       3.3         Q1205       B         8       0.3         C       14.0         B       11.3         E       5.0         C       5.0         B       6.0         Q1206       E         E       5.0         B       6.0         Q1207       E         C       76.0         B       0.6         C       11.3         B       0.6         Q1208       E         C       0         B       12.0         C       14.0         B       12.5         Q1208       E         C       1	7	9.7		С	0.3
9 2.1					
0         2.8           1         2.4           2         0           3         5.2           4         5.3           5            6         2.7           7         5.0           8         0.3           E         12.0           C         14.0           B         11.3           E         3.3           Q1206         E           C         5.0           B         6.0           C         76.0           B         0.5           331         E           E         0           C         76.0           B         0.6           C         11.3           B         0.6           C         11.3           B         0.6           C         14.0           B         0.6           C         11.3           B         0.6           C         14.0           B         0.6           C         14.0           B         0.6           C					
66       2.7       B       0.7         77       5.0       E       12.0         8       0.3       E       12.0         C       14.0       B       11.3         E       3.3       Q1206       C         C       0       E       5.0         B       6.0       C       5.0         B       6.0       C       5.0         B       6.0       C       11.3         B       0.5       C       11.3         B       0.6       C       11.3         B       0.6       C       12.0         C       0       C       14.0         B       12.0       C       14.0         B       12.0       C       14.0         B       12.5       C       12.5         C       11.9       E       0         C       12.5       B       0.6         E       0       C       12.5         B       0.6       C       12.5         B       0.6       C       12.5         B       0.6       C       12.5					20.0
66       2.7       B       0.7         77       5.0       E       12.0         8       0.3       E       12.0         C       14.0       B       11.3         E       3.3       Q1206       C         C       0       E       5.0         B       6.0       C       5.0         B       6.0       C       5.0         B       6.0       C       11.3         B       0.5       C       11.3         B       0.6       C       11.3         B       0.6       C       12.0         C       0       C       14.0         B       12.0       C       14.0         B       12.0       C       14.0         B       12.5       C       12.5         C       11.9       E       0         C       12.5       B       0.6         E       0       C       12.5         B       0.6       C       12.5         B       0.6       C       12.5         B       0.6       C       12.5	0				
66       2.7       B       0.7         77       5.0       E       12.0         8       0.3       E       12.0         C       14.0       B       11.3         E       3.3       Q1206       C         C       0       E       5.0         B       6.0       C       5.0         B       6.0       C       5.0         B       6.0       C       11.3         B       0.5       C       11.3         B       0.6       C       11.3         B       0.6       C       12.0         C       0       C       14.0         B       12.0       C       14.0         B       12.0       C       14.0         B       12.5       C       12.5         C       11.9       E       0         C       12.5       B       0.6         E       0       C       12.5         B       0.6       C       12.5         B       0.6       C       12.5         B       0.6       C       12.5	.1				
66       2.7       B       0.7         77       5.0       E       12.0         8       0.3       E       12.0         C       14.0       B       11.3         E       3.3       Q1206       C         C       0       E       5.0         B       6.0       C       5.0         B       6.0       C       5.0         B       6.0       C       11.3         B       0.5       C       11.3         B       0.6       C       11.3         B       0.6       C       12.0         C       0       C       14.0         B       12.0       C       14.0         B       12.0       C       14.0         B       12.5       C       12.5         C       11.9       E       0         C       12.5       B       0.6         E       0       C       12.5         B       0.6       C       12.5         B       0.6       C       12.5         B       0.6       C       12.5	2				0
66       2.7       B       0.7         77       5.0       E       12.0         8       0.3       E       12.0         C       14.0       B       11.3         E       3.3       Q1206       C         C       0       E       5.0         B       6.0       C       5.0         B       6.0       C       5.0         B       6.0       C       11.3         B       0.5       C       11.3         B       0.6       C       11.3         B       0.6       C       12.0         C       0       C       14.0         B       12.0       C       14.0         B       12.0       C       14.0         B       12.5       C       12.5         C       11.9       E       0         C       12.5       B       0.6         E       0       C       12.5         B       0.6       C       12.5         B       0.6       C       12.5         B       0.6       C       12.5	3			Q1202	
66       2.7       B       0.7         77       5.0       E       12.0         8       0.3       E       12.0         C       14.0       B       11.3         E       3.3       Q1206       C         C       0       E       5.0         B       6.0       C       5.0         B       6.0       C       5.0         B       6.0       C       11.3         B       0.5       C       11.3         B       0.6       C       11.3         B       0.6       C       12.0         C       0       C       14.0         B       12.0       C       14.0         B       12.0       C       14.0         B       12.5       C       12.5         C       11.9       E       0         C       12.5       B       0.6         E       0       C       12.5         B       0.6       C       12.5         B       0.6       C       12.5         B       0.6       C       12.5	4	5.3			0
66       2.7       B       0.7         77       5.0       E       12.0         8       0.3       E       12.0         C       14.0       B       11.3         E       3.3       Q1206       C         C       0       E       5.0         B       6.0       C       5.0         B       6.0       C       5.0         B       6.0       C       11.3         B       0.5       C       11.3         B       0.6       C       11.3         B       0.6       C       12.0         C       0       C       14.0         B       12.0       C       14.0         B       12.0       C       14.0         B       12.5       C       12.5         C       11.9       E       0         C       12.5       B       0.6         E       0       C       12.5         B       0.6       C       12.5         B       0.6       C       12.5         B       0.6       C       12.5	5			С	0
7 5.0   Q1205   E 12.0   C 14.0   B 11.3   Q1206   C 0 0   E 5.0   Q1207   C 5.0   C 11.3   B 0.6   C 11.4   C 14.0   G 12.0   C 11.9   E 0   G 12.0   C 11.9   E 0   G 12.0   G 12.5   G 15.5   G 12.5   G 12.5	6	2.7		В	0.7
8     0.3       31     B       E     3.3       C     0       B     11.3       C     0       B     11.3       C     5.0       B     6.0       C     5.0       B     6.0       C     76.0       B     0.5       C     11.3       B     0.6       C     11.3       B     0.6       C     12.0       C     14.0       B     12.5       E     0       C     11.9       B     0.6       C     12.5       B     0.6       C     12.5       B     0.6       C     12.5       B     0.6	7			Q1205	
C 14.0 B 11.3 Q1206 C 0 B 5.0 C 5.0 B 6.0 C 76.0 C 76.0 C 76.0 C 76.0 C 11.3 B 0.6 C 11.6 C 14.0 C 14.0 B 12.5 C 15.0 C 15.0 C 11.3 C 14.0					12 0
B	_	0.0			
Section   Color   Co	101				
C     0       B     5.0       C     5.0       B     6.0       C     76.0       B     0.5       C     11.3       B     0.6       C     11.3       B     0.6       C     11.3       B     0.6       C     12.0       C     14.0       C     14.0       C     11.9       C     12.5       C     12.5 <td>юI -</td> <td>0.0</td> <td></td> <td>04000</td> <td>11.3</td>	юI -	0.0		04000	11.3
C   S.0   B   6.0					
B   6.0     Q1207     E   0     G1   G1   G1   G1   G1   G1   G					
E     0     Q1207       C     76.0     E     0       B     0.5     C     11.3       B     0.6     E     12.0       C     0     E     12.0       B     11.4     C     14.0       B     12.5     Q1209     E       C     11.9     E     0       C     12.5     B     0.6       B     0.6     Q3001	3	2.7			
C     76.0       B     0.5       C     11.3       B     0.6       E     11.6       C     0       B     12.0       C     14.0       B     12.5       C     11.9       C     12.5       C     12.	01			В	6.0
C     76.0       B     0.5       C     11.3       B     0.6       E     11.6       C     0       B     12.0       C     14.0       B     12.5       C     11.9       C     12.5       C     12.	≣	0		Q1207	
B   0.6     Q1208     E   11.6     C   0     E   12.0     Gamma   Ga	)	76.0			0
B   0.6     Q1208     E   11.6     C   0     E   12.0     Gamma   Ga	3				
E 11.6 Q1208 E 12.0 B 12.5 Q1209 C 11.9 E 0 G 12.5 G 151 B 0.6 E 0 Q3001		5.0			
B   12.5     C   11.9   E   0     C   12.5	-	11.6			0.0
B   12.5     C   11.9   E   0     C   12.5					100
B   12.5     C   11.9   E   0     C   12.5	_				
3 0 C 12.5 51 B 0.6 E 0 Q3001	3	11.4			
3 0 C 12.5 51 B 0.6 E 0 Q3001	32				12.5
3 0 C 12.5 51 B 0.6 E 0 Q3001		0		Q1209	
3 0 C 12.5 51 B 0.6 E 0 Q3001	5	11.9			0
B 0.6 Q3001 Q3001	3				
0 Q3001					
C E 1.7		n			0.0
<u> </u>		-			17
			l		1./

\MODE_	STOP	
PIN NO.		
С	0	
В	1.0	
Q3002		
E	1.8	
C	5.0	
В	2.5	
Q3301	2.0	
	0	
E	0 4.3	
<u>С</u> В		
	-0.3	
Q4001		
E	5.0	
<u>C</u>	5.1	
В	4.5	
Q4002		
Е	0	
С	0	
В	0.8	
Q4003		
Е	0	
С	0	
В	0.8	
Q4101		
Е	0	
	0.2	
В	0.2	
Q5301		
E	3.2	
C	9.1	
В	3.8	
Q5901	0.0	
<u>Q3901</u>	9.1	
C	12.0	
В	9.7	
TD504	100.0	
TP501	130.6	
TP502	0	
TP551	-5.2	
TP552	-5.9	
TP553	5.3	
TP554	19.5	
TP556	200.0	
TP558	24.2	
TP559	16.0	
TP560	0	
TP806	120.0	
TP807	120.0	
TP808	3.5	
TP809	0.0	
TP810	12.0	
TP891	130.0	
TP892	120.0	
TP893	0	
TP1002	30.0	

TP1003 14.0

MODE	OTOD I	
MODE	STOP	
PIN NO.		
TP1005	5.0	
TP1007	0	
TP1201	12.0	
TP1202	12.0	
TP1203	5.0	
TP3001	1.7	
TP3002	2.5	
TP3003	3.4	
TP3004	2.0	
TP3005	0.1	
TP3006	2.5	
TP3007	2.4	
TP3008	2.4	
TP3009	0	
TP3010	3.0	
TP3011	2.7	
TP3212	3.0	
TP4002	0	
TP4003	0	
TP4501	0	
TP4505	-0.7	
TP4507	16.0	
TP4591	-0.7	
TP4706	0	
TP5301	3.5	
TP5302	3.5	
TP5303	3.5	
TP5304	12.0	
TP5305	3.2	
TP5307	0.2	
TP5308	1.5	
TP5309	1.7	
TP5310	5.7	
TP5311	3.5	
TP5401	4.0	
TP5402	2.8	
TP5501	0.7	
TP5502	0.1	
TP5503	2.1	
TP5504	-0.1	
TP5505	0	
TP5506	5.3	
1	. I	

TV/VC	RMA	AIN C	В.А.
\MODE	REC	PLAY	]
PIN NO.\			
IC6001			<b>†</b>
1	5.2	5.2	İ
2	5.2	5.2	
3	5.2	5.2	İ
4	5.2	5.2	İ
5	5.2	5.2	İ
6	2.6	2.6	Ì
7	4.9	4.9	İ
8	4.9	4.9	İ
9	3.5	2.1	İ
10	5.2	5.2	l
11	4.9	4.9	
12	0.3	0.3	
13	0.1	0.2	l
14	5.2	5.2	
15		2.5	
	2.5		
16	0	0	<u> </u>
17	0	0	
18	2.6	2.6	
19			
20	5.0	0.2	
21	5.2	5.2	
22			
23			
24			
25	5.2	0	
26	0	5.2	
27			]
28	5.2	0	1
29	0	0	
30	0	0	
31	4.6	0	
32	4.7	5.2	
33	0	0	
34	5.2	5.2	İ
35	0	0	]
36	5.2	5.2	İ
37	5.2	5.2	İ
38	2.4	2.4	İ
39	2.4	2.4	1
40	0	0	İ
41	5.0	5.0	İ
42	5.2	5.2	1
43	5.2	5.2	1
44	2.5	2.5	1
45	2.5	2.5	İ
46	0	0	1
47			İ
48			l
49	0	0	1
50	0	0	ł
			1
51 52	0.6	0.6	1
52 52			1
53	5.2	5.2	1
54	2.2	2.2	J

.AY	MODE	REC	PLAY		MODE	ĺ
	PIN NO.				PIN NO.\	L
	55	2.6	2.6		4	L
5.2	56	0	0		IC6004	L
.2	57	0	0		1	L
.2	58	0.3	0.3		2	L
.2	59	0.4	0.4		3	L
.2	60	0	0		4	L
2.6	61	0	0		5	L
.9	62	0.1	0.1		6	L
.9	63	0.1	0.1		7	L
2.1	64	0.1	0.1		8	L
.2	65				IC6005	L
.9	66				1	L
.3	67				2	L
).2	68				3	L
5.2	69				4	L
2.5	70				5	L
)	71	3.2	3.2		6	L
)	72	2.8	2.8		IC6201	L
2.6	73	0	0		1	L
	74	0.2	0.2		2	L
.2	75				3	L
.2	76	2.7	3.2		4	L
	77	2.6	2.8		5	L
	78	5.2	5.2		6	H
	79				7	ŀ
_	80				8	ŀ
.2	81	5.2	5.2		9	L
	82	0	0		10	H
1	83	0	0		11	H
	84	0.1	0.1		12	H
)	85	0.2	0.2		13	H
)	86	2.6	2.6		14	H
5.2	87	2.6	2.6		15	L
i.2	88	0	0		16	H
	89	0.3	0.3		17	H
)	90	1.4	1.4		18	H
.2	91	2.6	2.6		19	H
.2	92	2.6	2.6		20	H
.4	93	1.3	4.3		21	H
.4	94 95	2.4	2.6		22	H
	95 96	2.9	2.6		23	H
.0	96 97	2.6	2.6		24	H
.2		2.6	2.6		25 26	H
.5	98 oo	5.2	5.2 5.2		26 27	H
.5 .5	99 100	5.2 0.3	0.3		21	H
.5	IC6002	0.3	0.3		Q6001	H
	1	1.2	1.2		E	H
	2	0			C	H
	3	0	0		В	H
	4		0		Q6002	H
.6	IC6003				E	H
	1	2.4	2.4		C	H
2	2	1.2	1.2		В	H
٠.ـ	_	1.4	1.4	1		L

0

MODE PIN NO.	REC	PLA
4	5.2	5.1
IC6004	5.2	5.1
	0	_
1	0	0
2	0	0
3	0	0
4	0	0
5	5.3	5.3
6	5.2	5.2
7	0	0
8	5.0	5.0
IC6005		
1	5.2	5.2
2	5.0	5.0
3	0	0
4	0	0
5	5.0	5.0
6	0	0
IC6201	0	<u> </u>
	11.0	11 0
1	11.9	11.9
2	3.1	3.1
3	0	0
4	3.0	3.0
5	0.1	0.1
6	0.1	0.1
7	16.7	16.7
8	0	0
9	2.9	2.9
10	1.7	1.7
11	1.7	1.7
12	0.7	0.7
13	0	0
14	2.6	2.6
15	2.7	2.7
16	2.7	2.7
17	2.7	2.7
18	1.4	1.4
19	5.2	5.2
20	3.7	3.7
21	11.9	11.9
22	3.8	3.8
23	3.8	3.8
24	0	0
25	3.8	3.8
26	0	0
27	0	0
	-	
Q6001		
E	12.0	12.0
C		
	12.0	0.3
В	11.3	11.7
Q6002		
E	4.5	0
С	11.3	12.1
В	5.2	0

Ю	N)	
Υ	MODE PIN NO.\	REC
	Q6003	
_	E	0
_	C	0.2
_	В	0.8
1	Q6005	0.0
	E	5.3
3	C	5.2
3 2	В	4.4
	Q6006	
)	Е	0
	С	5.2
2	В	0
<u>2</u> )	Q6009	
-	E C	5.2
$\forall$	Q6010	5.2
)	E	0
$\dashv$	C	5.1
)	Q6216	J. 1
í	E	0
	C	5.6
7	В	0.7
) 	Q6217	0
	E	5.0
7	С	11.9
	В	5.6
)		
) 7 7 7	TP6001	5.2
7	TP6002	5.2
7	TP6003	3.4
	TP6004	
3	TP6005	5.1
6 7 7 7	TP6006	0
_	TP6007	5.2
-	TP6008	0
1	TP6009	5.0
<u>?</u> 7	TP6013	0
$\mathcal{H}$	TP6019	4.9
	TP6099	5.1
3	TP6101	5.2
4	TP6104 TP6106	5.3 5.0
$\exists$	TP6111	
3	TP6201	0 2.7
$\dashv$	TP6202	2.6
$\dashv$	TP6203	2.4
$\dashv$	TP6205	2.6
)	TP6206	3.0
. 1		2.6
3	1 170207	Z.0
7	TP6207 TP6208	2.7

TP6209

		HEAD	ΔΙΛΙ
REC	PLAY	MODE PIN NO.	STOP
		IC3501	
0	0	1	0
0.2	0.2	2	0
0.8	0.8	3	0.5
		4	0
5.3	5.3	5	0
5.2	5.2	6	0
4.4	4.4	7	0.5
		8	0
0	0	9	0
5.2	5.2	10	0
0	0	11	0
		12	0
0	0	13	
5.2	5.2	14	2.4
		15	2.4
0	0	16	2.4
5.1	5.2	17	2.4
		18	0
0	0	19	
5.6	5.6	20	
0.7	0.7	21	
		22	0
5.0	5.0	23	0
11.9	11.9	24	0
5.6	5.6	25	0.2
		26	0
5.2	5.0	27	0
5.2	5.2	28	0
3.4	2.9	29	0
		30	2.5
5.1	5.2	31	5.2
0	0	32	0
5.2	5.2	33	0
0	0	34	0
5.0	5.0	35	11.9
0	0	36	0.1
4.9	4.9		
5.1	5.1	TP3501	0
5.2	5.2		
5.3	5.2		
5.0	5.0		
0	0		
2.7	2.7		
2.6	2.6		
2.4	2.4		
2.6	2.9		
3.0	2.6		
2.6	2.6		
2.7	2.7		
2.1	2.7		

# CRT C.B.A. MP C.B.A. (A, B, C, D)

Д, Б,	<u>U, D)</u>
MODE PIN NO.	STOP
PIN NO.\	
Q351	
E	2.1
	3.1
	131.1
В	3.5
Q352	
Е	3.1
С	127.9
В	3.5
	3.5
Q353	
Е	3.0
С	131.9
В	3.5
TP47	0
TP47 TP49	2.5
1F49	3.5
TP50	131.9
	l

# CRT C.B.A.

(E, F)		
MODE	STOP	
PIN NO.	0.01	
Q351		
	2.1	
E	3.1	
С	131.1	
В	3.5	
Q352		
E	3.1	
С	127.9	
В	3.5	
Q353		
Е	3.0	
С	131.9	
В	3.5	
TP47	0	
TP49	3.5	
	131.9	
1.50	8.101	
-		
<b>—</b>		
<b>—</b>		

# COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
	Α
PV-C1324-K	В
	С
PV-C1334W-K	D
	Е
PV-C2024-K	F

#### TV/VCR MAIN C.B.A. ∆V1 +1.000Vp-p ∆V1 +0.26Vp-p ∆V1 +100mVp-p ∆V1 +0.35Vp-p ∆V1 +1.0Vp-p ∆V1 +4.00Vp-p ∆V1 +4.20Vp-p PIN 20 OF IC3001 PIN 71 OF IC3001 TP4002 REC/PB TP3001 REC/PB PIN10 OF IC5301 POWER ON PIN 22 OF IC5301 POWER ON 20µs1 0.5V 0.1V 50mV 0.5ms1 0.2V 2V 0.5V 0.5ms1 1V 5ms1 20µs1 WF21 WF14 WF26 WF1 WF6 WF9 WF18 ∆V1 +1.000Vp-p ∆V1 +40mVp-p ∆V1 +0.4Vp-p ∆V1 +5.00Vp-p ∆V1 +0.2Vp-p ∆V1 +5.0Vp-p ∆V1 +5.0Vp-p CH1 TP3002 CH2 TP6205 0.1V 5V РВ PIN 13 OF IC3001 PIN 16 OF IC3001 REC REC CUE/REV /SLOW/STILL 2ms 1 PIN 16 OF IC5301 POWER ON PIN 12 OF IC3001 PIN 73 OF IC3001 REC PIN 23 OF IC5301 POWER ON 5V 50μs1 0.5V 50mV 0.5ms1 0.10 20µs1 WF2 WF6 WF10 WF15 CH1 WF19 WF22 WF27 CH2 WF32 ∆V1 +0.3Vp-p ∆V1 +0.24Vp-p ∆V1 +0.450Vp-p ∆V1 +0.8Vp-p ∆V1 +0.25Vp-p ∆V1 +1.30Vp-p ∆V1 +2.0Vp-p CH1 TP3002 CH2 TP6205 0.2V 5V PIN 29 OF IC3001 РВ PIN 10 OF IC3001 REC PIN 65 OF IC3001 REC PIN 34 OF IC3001 PB PB SP PIN 18 OF IC5301 POWER ON PIN 41 OF IC5301 POWER ON 1V 5ms 2 0.5V 0.2V 0.1V 20µs1 0.5V 0.5ms1 0.1V 20µs1 20µs1 WF3 WF7 WF11 WF16 WF23 WF28 **CH1 WF19** CH2 WF32 ∆V1 +0.35Vp-p ∆V1 +0.240Vp-p ∆V1 +0.23Vp-p ∆V1 +4.0Vp-p ∆V1 +2.50VDC ∆V1 +0.590Vp-p ∆V1 +0.4Vp-p CH1 TP3002 CH2 TP6205 0.2V 5V PIN 41 OF IC3001 REC PIN 19 OF IC5301 POWER ON PIN 10 OF IC3001 PB PIN 69 OF IC3001 REC/PB PB SLP TP6209 REC/PB PIN 27 OF IC3001 5ms 2 5µs1 0.2V 0.1V 0.2V 0.5ms1 0.2V 5ms 2 1 V 20µs1 1 V 20µs1 20µs1 WF7 WF17 WF4 WF12 **CH1 WF19** WF24 WF29 CH2 WF32 ∆V1 +0.2Vp-p ∆V1 +5.0Vp-p ∆V1 +50mVp-p ∆V1 +0.42Vp-p ∆V1 +2.0Vp-p ∆V1 +4.20Vp-p ∆V1 +4.5Vp-p PIN 58 OF IC3001 PB PIN 41 OF IC3001 PB SP PIN 21 OF IC5301 POWER ON REC/PB SP PIN 46 OF IC3001 PIN 14 OF IC3001 REC/PB PIN 56 OF IC6001 TP6203 РВ

0.1V

WF5

2V

WF8

20µs1

0.5ms1

**WF13** 

0.2V

WF17

1V

WF20

2V 20μs1

WF25

1V

WF30

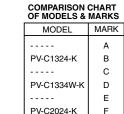
0.5ms1

50V

WF62

20µs1

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

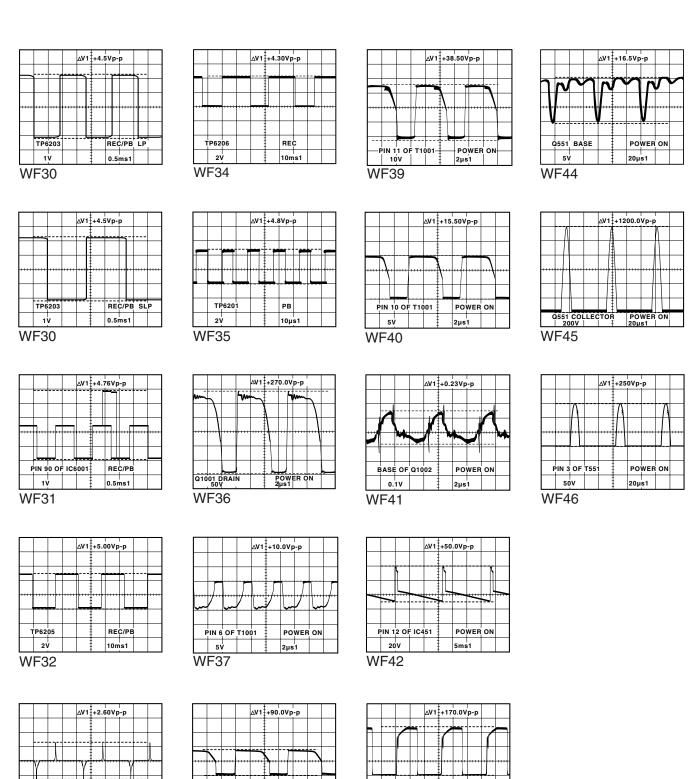


HEAD AMP C.B.A.

CH1 TP3501 REC SLP
-CH2 PIN 1 OF IC3501
2V 5V 5ms 2

CH1 WF70

CH2 WF71



POWER ON

2µs1

PIN 9 OF T1001

50V

WF38

TP6207

1 V

WF33

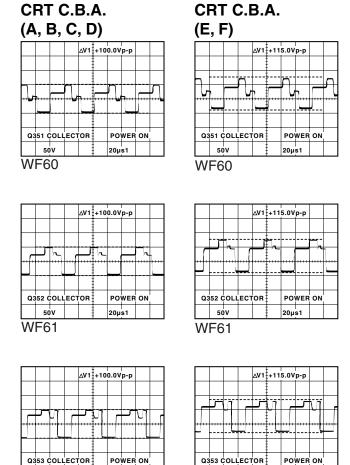
PB SP

Q501 COLLECTOR POWER ON

50V

WF43

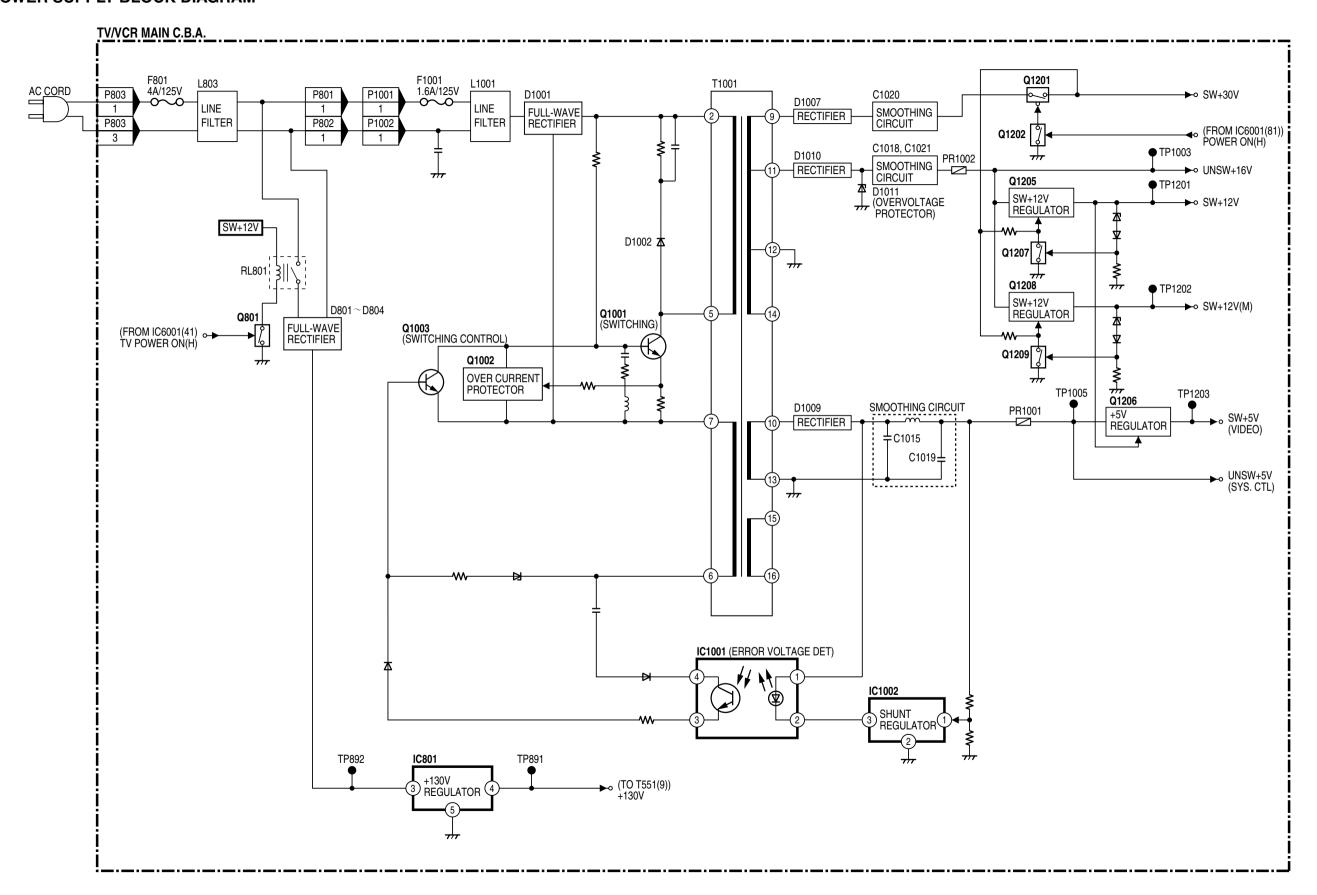
20µs1

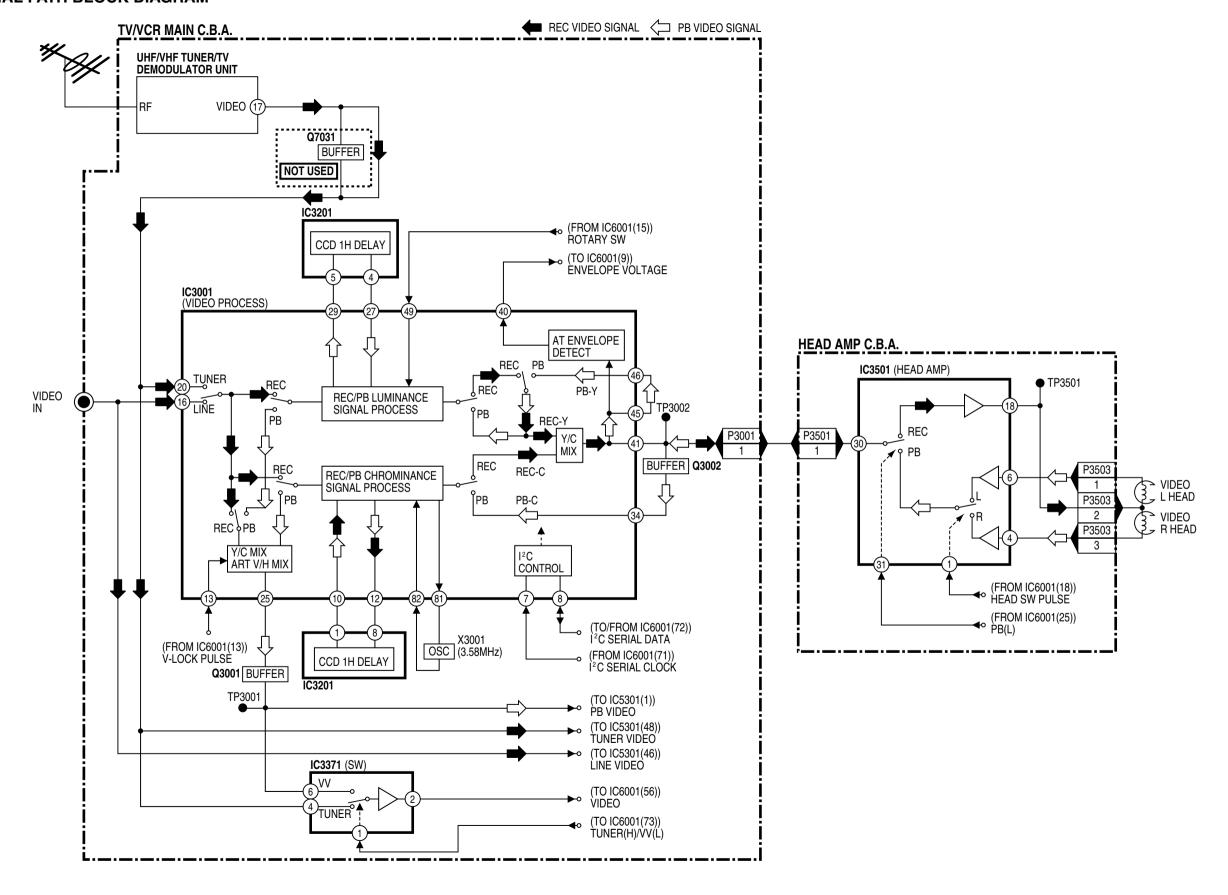


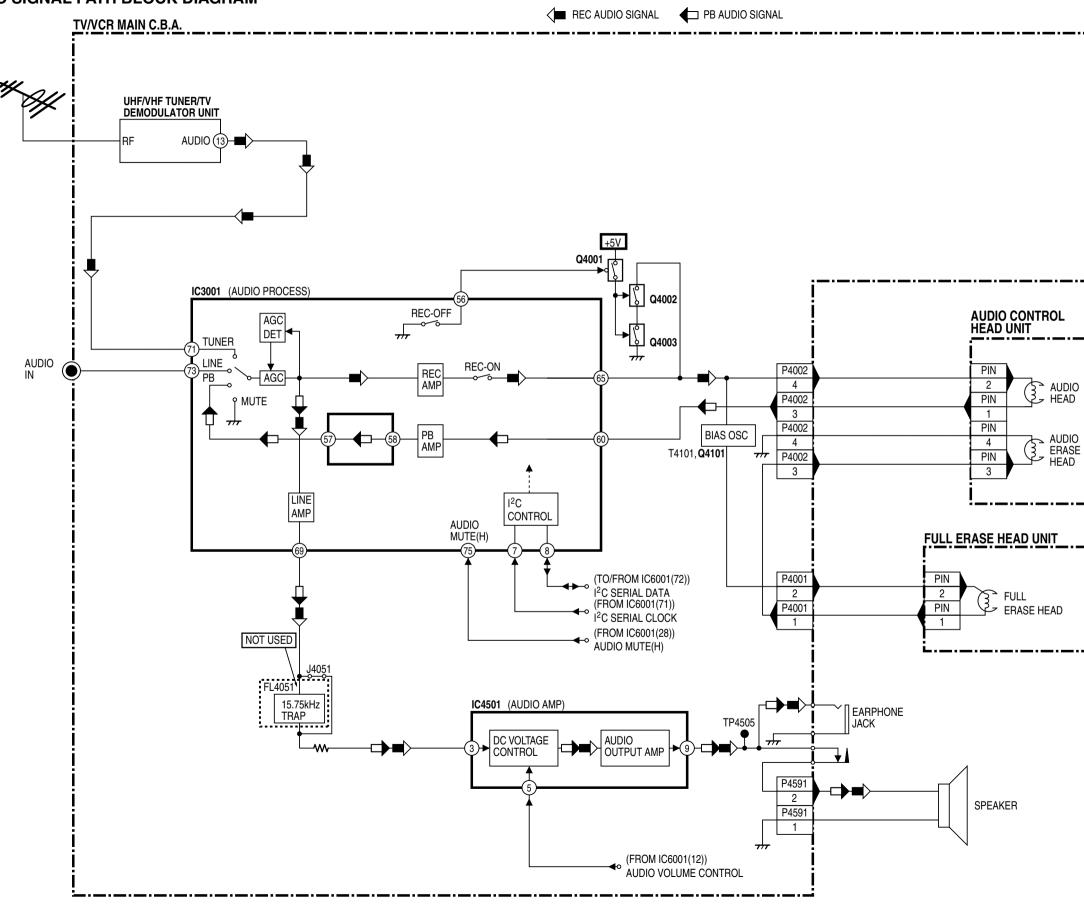
50V

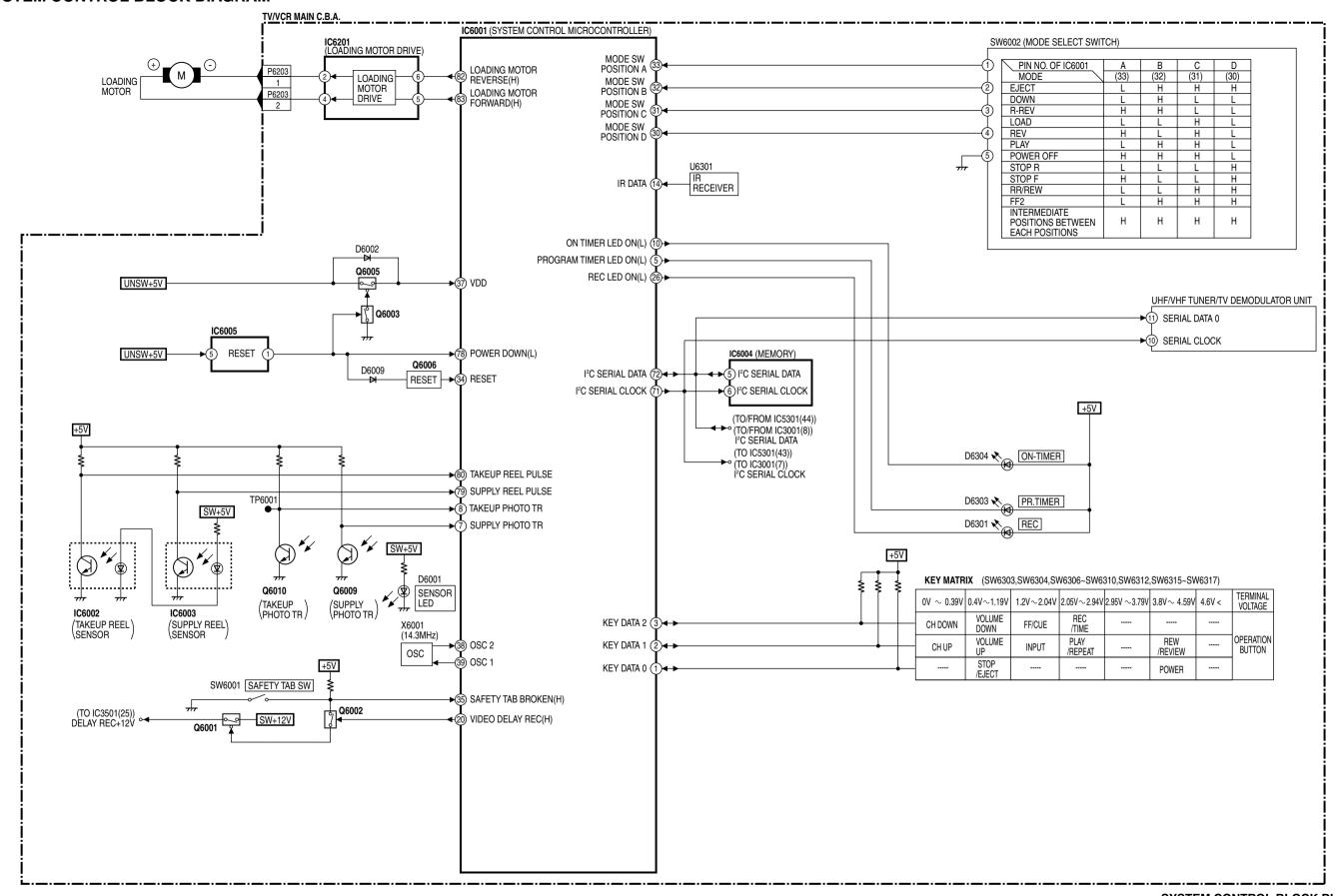
WF62

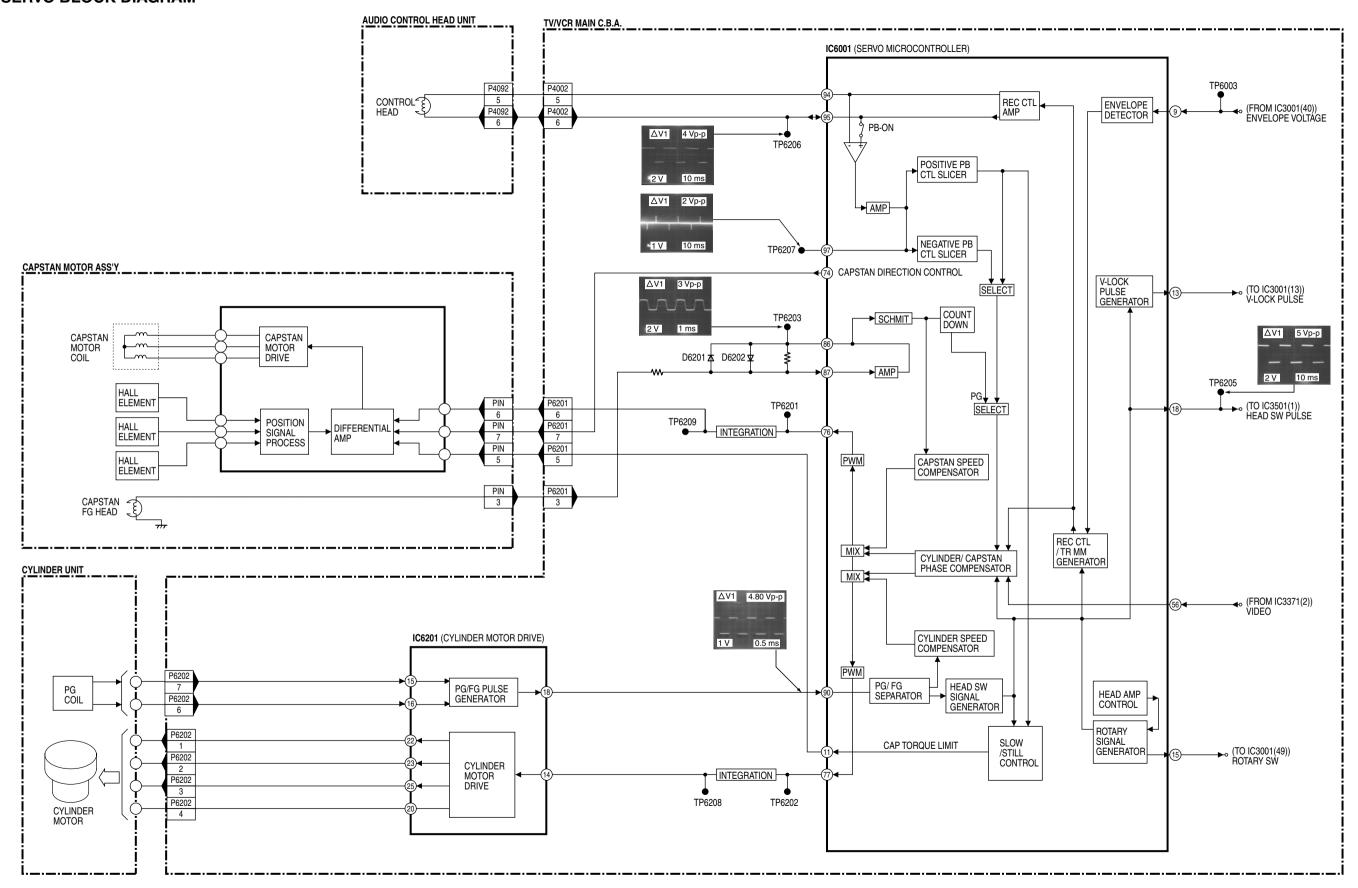
20µs1

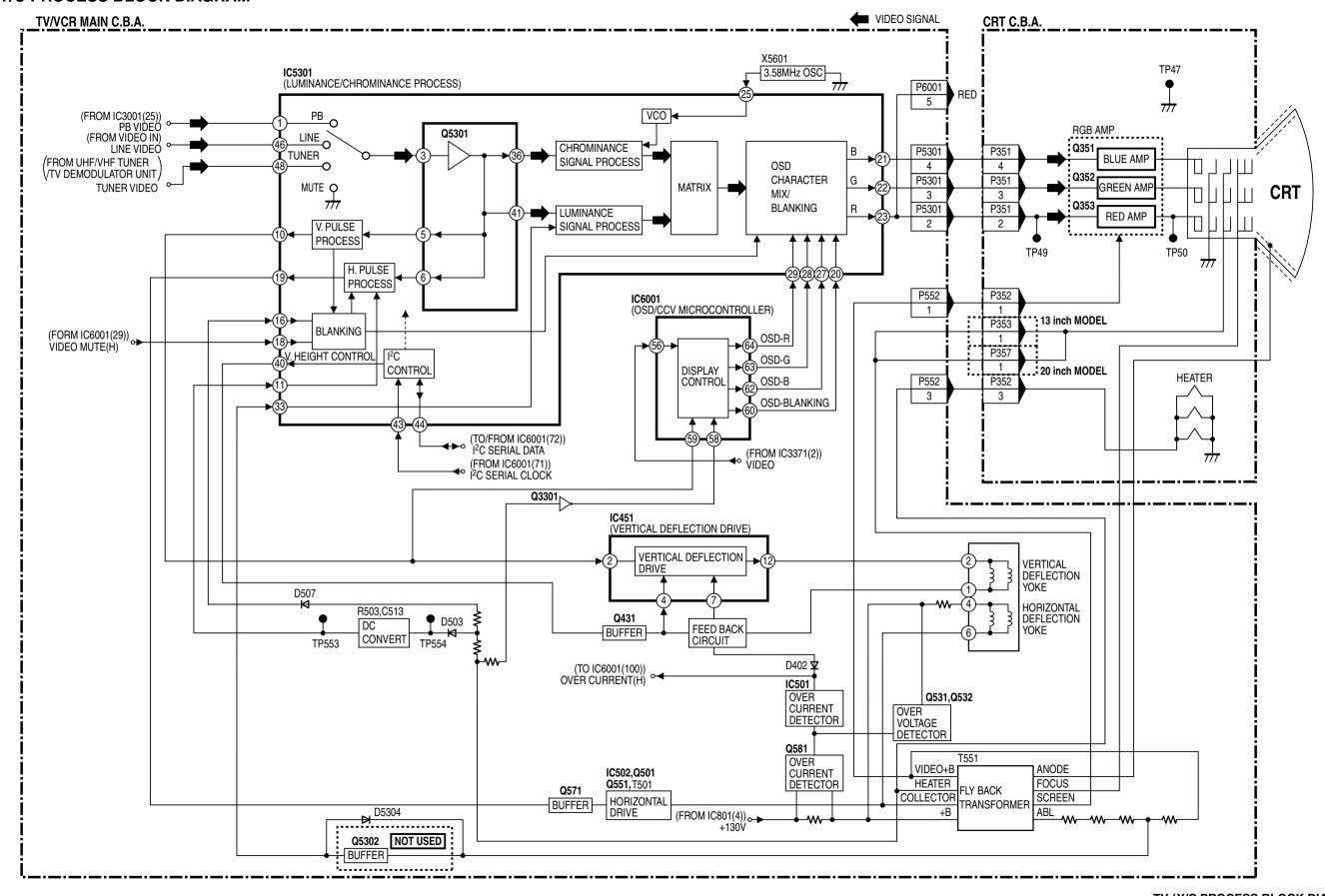




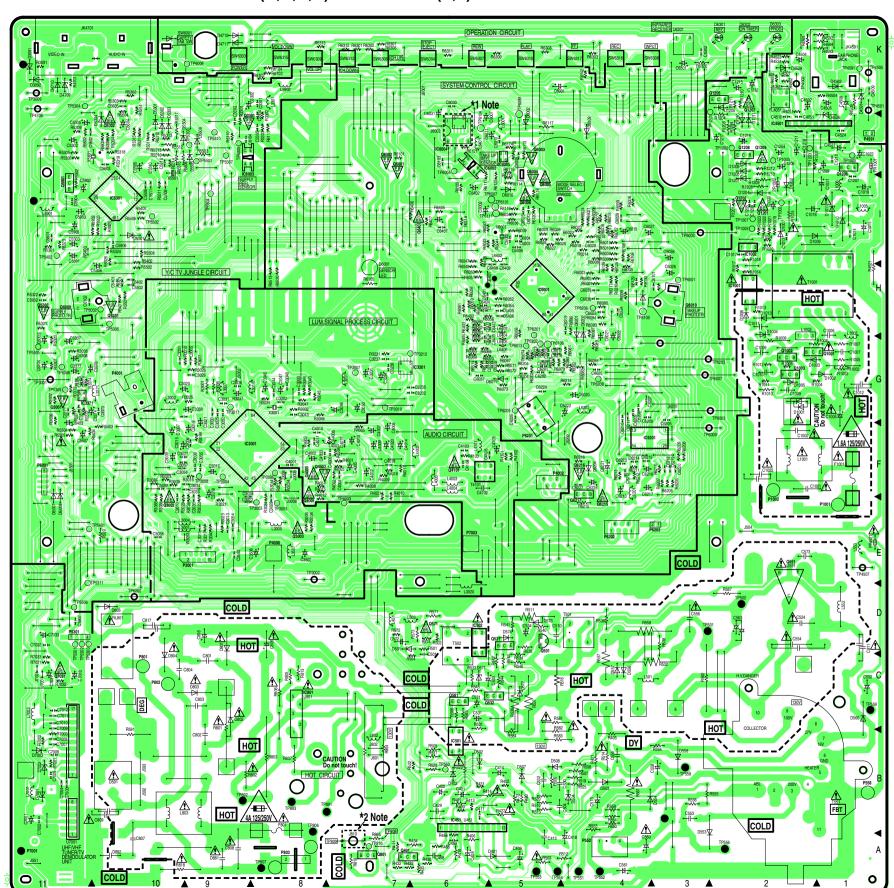








### TV/VCR MAIN C.B.A. LSEP2127P (A,B,C,D) / LSEP2127A (E,F)



FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING. PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 4A 125/250V FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME 4A 125/250V TYPE 4A 125/250V

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 1.6A 125/250V FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'T INCENDIE N'I UTILISERQUE DES FUSIBLE DE MÉME /1.6A 125/250V TYPE 1.6A 125/250V

IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED BY THE SIGN 🗘 HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SPECIFIED PARTS.

#### \*1 Note

There are 2 types of EEPROM IC (IC6004) used on the Main C.B.A. (DIP TYPE and SOP TYPE) However, these are same reliability.

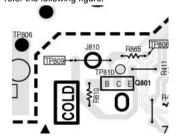




Be sure to install DIP type IC from the component side as shown in Fig. 1. Be sure to intall SOP type IC from the foil side as shown in Fig. 2.

#### \*2 Note

When the TV/VCR MAIN CBA is replaced, the Jumper wire(J801 or J810) of the new TV/VCR MAIN CBA must be cut before use. If the Jumper wire isn't cut, the power does not turned on to the TV circuit. As for the location of the Jumper wire, please refer the following figure.



TV/VCR MAIN C.B.A. LSEP2127P/LSEP2127A PV-C1324-K/PV-C1334W-K/PV-C2024-K

COMPARISON CHART

OF MODELS & MARKS

MODEL

PV-C1324-K

PV-C1334W-K

PV-C2024-K

MARK